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ANNUAL REPORT

OF THE

Board of Grain Commissioners
for Canada

FOR THE YEAR

1938



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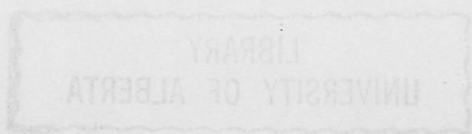


OTTAWA

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DEPARTMENT OF TRADE AND COMMERCE

OTTAWA, CANADA

Printed by the
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SIXTY-THIRD

ANNUAL REPORT

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REPORT OF THE BOARD

BOARD OF GRAIN COMMISSIONERS FOR CANADA

WINNIPEG, MAN., January 6, 1939.

Honourable W. D. EULER, M.P.,
Minister of Trade and Commerce,
Ottawa.

SIR,—We beg to present herewith the Annual Report of the Board of Grain Commissioners for Canada for the year 1938, in conformity with section 23 of the Canada Grain Act, 1930.

GENERAL CONDITIONS

As a result of the larger crop in western Canada for 1938 there has been greater activity than in 1937 in the weighing and inspection services of the Board during the autumn months. Canadian Government Elevators have also benefited by the increase. Licences under the Board as of December 1, 1938, are reported by the warehouseman at 5,508, an increase of 942 over December 1, 1937.

THATCHER AND CORONATION WHEATS

In its report for 1937 the Board reported the trial shipment of 24,000 bushels of Thatcher Wheat and 24,000 bushels of Coronation Wheat to United Kingdom centres for milling tests under commercial conditions. Dr. W. F. Geddes, the chief chemist, was sent over and spent the months of January, February and March co-operating with the millers making the tests and observing results. It was found that Thatcher Wheat in general was equal to Marquis but Coronation was not up to the same standard. As a result of the information made available to the wheat growers of western Canada large areas in 1938 were sown to Thatcher. While not wholly resistant to rust, the general results fully warranted the growing of Thatcher in districts subject to this disease.

The Board issued a pamphlet dealing with the characteristics of Thatcher Wheat prepared by Dr. Geddes for distribution abroad. These were widely circulated in Great Britain and the Continent and aided materially in making known the qualities of this new variety of wheat. Subsequently in the autumn of 1938 Commissioner Hamilton accompanied by Dr. J. G. Malloch, cereal chemist of the staff of the National Research Council, met and conferred with the Trade in the United Kingdom and at points on the Continent. As a result of these various measures it is not apprehended that the introduction of Thatcher Wheat as an important constituent in the higher grades of Canadian northern spring wheat will cause any real difficulties.

GARNET WHEAT

The amendment to the Canada Grain Act passed in 1938 excluding red spring wheat of the Garnet variety from the statutory grades of No. 3 Manitoba Northern and No. 4 Manitoba Northern came into force on the first day of

August, 1938. The exclusion of Garnet combined with the prevalence of rusted wheat this year has led to some complaints by European buyers arising out of the lighter weight per measured bushel of these grades.

INSPECTION SERVICES IN WESTERN ONTARIO

In response to requests from the corn growers of Western Ontario on September 15, the Board opened an office in Chatham and inaugurated voluntary inspection service in this region for the purpose of grading corn and other grain grown in the Eastern Division. Sufficient time has not elapsed to determine whether the use of these facilities warrants the expense of maintaining this service.

SAMPLING SEED GRAIN AT COUNTRY POINTS

At the request of the Canadian Wheat Board in February, special arrangements were made by the Board for sampling seed grain at country points in Saskatchewan in order that settlement for such grain could be made on the basis of official inspection. This work which was completed before the end of April, was performed by the Winnipeg inspection and sampling staffs assisted by certain employees from other western inspection offices. In all, a total of fifty men proceeded to different country points. All additional expenditure in this connection was absorbed by the Wheat Board.

CANADIAN GOVERNMENT ELEVATORS

On account of the larger crop, in addition to the Moose Jaw elevator which was re-opened last year, the Saskatoon elevator has been re-opened. Both these elevators have now had substantial quantities of grain placed in them for storage by the Canadian Wheat Board. The government elevators in Alberta also show a fair handling. The Port Arthur elevator is still under lease to the McCabe Bros. Grain Company. The Prince Rupert elevator has been closed. This elevator was under lease to the Alberta Wheat Pool at a nominal rental since 1926 but the lease was not renewed at its expiry on July 31, 1938. It was not found possible to interest another company and the absence of a general flow of grain to this port made it unfeasible for the Board to operate it as a public terminal.

LAKE FREIGHT RATES

During the early months of the autumn shipping season on the Great Lakes the rates on the carriage of wheat to St. Lawrence ocean ports rose rapidly until they reached a level markedly higher than that of recent years. In October the Board fixed a maximum rate on wheat from Port Arthur and Fort William to Montreal of seven cents per bushel. This order is still in effect.

WEIGHOVER IN EASTERN ELEVATORS

With a view to checking the accuracy of returns made by Eastern elevators to the Deputy Registrar of Warehouse Receipts the Board weighed over without previous notice three eastern elevators. No serious discrepancies were found. To maintain a closer supervision of eastern elevators in this respect in the amendments now pending to the Canada Grain Act it is proposed to provide for an annual weighover of eastern elevators.

REVISION OF THE ACT

During the year the Board has given careful attention to preparing amendments to the Canada Grain Act. None of these involves a departure in policy but are minor amendments of an administrative nature rendered necessary by changes in general conditions.

RESIGNATION OF DR. GEDDES

The Board regrets to report that Dr. W. F. Geddes, Chief Chemist, resigned in December to accept a position in the University of Minnesota. The Board is taking immediate steps to fill this vacancy.

COMMITTEES ON GRAIN STANDARDS

Committees on Grain Standards for the Crop Year 1938-39 were constituted by the Board in accordance with section 25 of the Canada Grain Act, 1930.

The Western Committee was convened at Winnipeg on October 12, 1938, and the Eastern Committee at Toronto on November 15, 1938, and at Montreal on November 16, 1938.

AUDIT OF GRAIN HANDLED BY PUBLIC AND SEMI-PUBLIC TERMINAL
ELEVATORS

The regular annual audit of public and semi-public terminal elevators has been carried out. No excess overages were disclosed.

WHEAT BONUS

Outstanding wheat bonus certificates in the amount of Thirty-two Dollars and Forty-five Cents (\$32.45) were redeemed during the past year. Outstanding certificates still remain to the amount of Eight Thousand, Four Hundred and Fifty Dollars and Three Cents (\$8,450.03).

TARIFF MEETINGS

The usual public hearings to hear representations in the matter of tariffs of elevator charges for the Crop Year 1938-39 were held by the Board at Winnipeg, Vancouver and Toronto in July and August.

COUNTRY ELEVATOR OVERAGES

The Board has continued its policy of checking closely all country elevator operators with a view to eliminating the accumulation of excessive overages. In this connection a problem is arising due to the increasing size of loads of grain carried by trucks to country elevators. As a result it has been found necessary in many instances to install larger scales and this will continue to be necessary if the size of trucks continues to increase.

EXPENDITURES AND REVENUES

Total expenditure for the fiscal year 1937-38 was \$1,675,051.12 compared with \$1,738,584.86 for the previous fiscal year. Revenue for the fiscal year 1937-38 was \$734,978.84 compared with \$1,259,595.77 for the previous fiscal year, a decrease of \$524,616.93.

For the first nine months of the current fiscal year the total expenditure is approximately \$100,000.00 more than in the corresponding period during the previous fiscal year, owing to increased activity in the operating branches of the Board through the handling of a larger crop, and the revenue for the same period shows an increase of approximately \$350,000.00 over the same period last year.

INFRACTIONS OF THE ACT

During the year the Board investigated alleged cutting of tariffs in eastern elevators below the rates filed with the Board. This was found to be the fact in two instances and the elevator companies involved were each assessed a

penalty of \$500.00. At Fort William the Durum Wheat in the elevators of one terminal elevator company was weighed over on the report of the Registrar that there was evidence that the regulations governing the registration of warehouse receipts were not being observed. Discrepancies were found in the outstanding warehouse receipts as compared with the actual stocks in store. The company in question was required to rectify its position and to pay the out-of-pocket costs of the weighover.

GENERAL

The Board regrets to report the death of Kenneth Campbell of Vancouver, for many years a valued member of the Western Standards Committee.

On October 12, 1938, William James Crawford, grain inspector in charge at Vancouver, retired from the employment of the Board on superannuation after thirty-nine years service. Mr. Crawford's term of service at Vancouver covered the rise of this port to a position of important terminal and shipping point for western grain. His sound judgment in handling practical problems and his faithful adherence to duty have been of very great value to the Board.

Reports of the various departments of the Board are attached hereto as appendices for your information.

Respectfully submitted,

E. B. RAMSAY,
Chief Commissioner.

D. A. MacGIBBON,
Commissioner.

C. M. HAMILTON,
Commissioner.

APPENDIX No. 1

REPORT OF THE SECRETARY

WINNIPEG, MAN., January 6, 1939.

The Chief Commissioner,
Board of Grain Commissioners for Canada,
Winnipeg, Manitoba.

DEAR SIR,—I have the honour to submit the following memoranda summarizing different matters handled in the Executive Offices of the Board during the year 1938.

- (a) Complaints
- (b) Prosecutions
- (c) Defaults
- (d) Cars out of Turn
- (e) Licences Issued, Crop Year 1937-38
- (f) Licences issued during past 19 years and 1917 and 1911
- (g) Grain Loading Platforms
- (h) Report of Statistician
- (i) Annual Weigh-over, Terminal Elevators.

Yours truly,

J. RAYNER,

Secretary.

(a) COMPLAINTS

COUNTRY COMPLAINTS

During the year ended December 31, 1938, there were investigated by the Board eighty-nine (89) complaints, together with the six (6) outstanding at December 31, 1937, regarding the handling of grain at Country Elevators, shipments to Terminal Elevators and the operations of Licensees under the Canada Grain Act as follows:—

Manitoba.....	17
Saskatchewan.....	13
Alberta.....	59
	<hr/>
	89

Summary of disposition of country complaints:—

No grounds for complaint.....	25
Complaint withdrawn.....	10
Settlement effected between parties.....	45
Outside jurisdiction of Board.....	6
Settlement ordered.....	1
Not yet disposed of.....	8
	<hr/>
	95

MISCELLANEOUS COMPLAINTS

During the year under review three complaints in respect to the handling of grain at terminal elevators together with one complaint outstanding at December 31, 1937, were investigated by the Board. These were disposed of as follows:—

Settlement ordered by Board.....	1
Settlement effected between parties.....	3
	<hr/> 4

EXPORT SHIPMENTS

During the year 1938, fourteen (14) complaints, twelve (12) in respect to quality and two (2) *re* shortages, were received regarding overseas shipments. These together with the five (5) complaints outstanding at December 31, 1937, were investigated and disposed of as follows:—

Complaints <i>re</i> shortage of weight not upheld.....	3
Complaints <i>re</i> quality of grain not upheld.....	9
Compensation paid by loading elevator.....	1
Complaint withdrawn.....	3
Complaints not yet disposed of.....	3
	<hr/> 19

(b) PROSECUTIONS

During the year 1938 there were no cases of prosecution for breaches of the provisions of the Canada Grain Act instituted by the Board.

(c) DEFAULTS

There were no cases of default by licensees during the year 1938.

(d) CARS OUT OF TURN

It was not found necessary for the Board to order any cars out of turn under the provisions of Section 68 of the Canada Grain Act during the year 1938.

(e) SUMMARY OF LICENSING AND BONDING FOR THE SEASON 1937-38

During the season which commenced on September 1, 1937, and ended on August 31, 1938, one hundred and fifty-six (156) firms and individuals applied for licences as required by the provisions of The Canada Grain Act.

Four thousand, nine hundred and fifteen (4,915) applications for licences were received and four thousand, eight hundred and seventy-nine (4,879) licences were issued. Twenty-three (23) licences were transferred and thirteen (13) applications were withdrawn for various reasons.

APPLICATIONS RECEIVED AND LICENCES ISSUED

Kind	Applications		Licences	
	Received	Withdrawn	Issued	Transferred
Track Buyers.....	40	0	40	0
Commission Merchants.....	47	0	47	0
Grain Dealers.....	20	1	19	0
Public Terminal Elevators.....	3	0	3	0
Semi-Public Terminal Elevators.....	30	0	30	0
Private Terminal Elevators.....	40	0	40	0
Eastern Elevators.....	29	0	29	0
Mill Elevators.....	18	1	17	0
Private Country Elevators.....	13	0	13	0
Public Country Elevators.....	4,675	11	4,641	23
	4,915	13	4,879	23

The following licences, which were issued at the commencement of the season to the undernoted firms, were cancelled by order of the Board on the dates shown:—

Private Terminal Elevator Licence No. 66.—Lake of the Woods Milling Co., Ltd.; elevator at Portage la Prairie, Manitoba; changed nature of operations to Public Country warehousemen; cancelled February 28, 1938.

Grain Commission Merchant's Licence No. C17.—Standard Elevator Co., Ltd., of Winnipeg, Manitoba; company ceased business; cancelled March 15, 1938.

Licence fees collected amounted to \$26,523.00; of this amount \$75.00 was refunded to applicants; \$65.00 owing to applications having been withdrawn and \$10.00 on account of applications submitted in error.

Surety bonds amounting to \$22,922,855.50 were executed by eleven (11) of the approved surety companies and were deposited with the Board as security covering the operations of the licensees; in addition three (3) licensees deposited negotiable Government bonds with a par value of \$14,000.00 in lieu of furnishing the usual forms of Surety bonds.

(f) STATEMENT SHOWING NUMBER AND KIND OF LICENCES ISSUED DURING THE SEASONS
1911-12; 1917-18 and 1919-20 to 1937-38

(Licence year commences September 1)

Kind	1937- 1938	1936- 1937	1935- 1936	1934- 1935	1933- 1934	1932- 1933	1931- 1932	1930- 1931	1929- 1930	1928- 1929	1927- 1928	1926- 1927	1925- 1926	1924- 1925	1923- 1924	1922- 1923	1921- 1922	1920- 1921	1919- 1920	1917- 1918	1911- 1912
Public Country Elevators..	4,641	5,234	5,528	5,302	5,504	5,661	5,145	5,500	5,082	5,153	4,540	4,314	4,236	4,074	4,054	3,828	3,668	3,704	3,146	3,577	1,972
Private Country Elevators.	13	11	12	13	14	9	12	385	398	309	156	35									
Public Terminal Elevators.	3	6	6	7	7	9	10	8	11	10	11	14	21	11	9	12	11	12	17	17	
Semi-Public Terminal El...	30	33	38	39	38	39	32	35		(formerly licensed as Private Elevators)											
Private Terminal Elevators	40	39	36	37	37	38	37	40	*76	*80	*87	*64	*63	*60	*32	*29	*25	*17	*20	**34	
Eastern Elevators.....	29	29	31	31	30	29	28	29	†20	†20	†18	†17	†17	†11	†10	†10	†13	†11	†16	†18	
Mill Elevators.....	17	15	19	19	21	22	26	25	†27	†18	†16	†10	†10	†12	†11	†9	†14				
Elevator Space.....									1	1	1	3	3	2	2	2				7	58
Track Buyers.....	40	40	41	46	51	64	57	48	62	82	84	88	95	104	109	113	132	143	131	156	123
Commission Merchants....	47	48	51	56	61	63	64	57	71	90	92	95	94	94	102	100	110	117	114	126	84
Grain Dealers.....	19	17	24	25	20	15	75	3	3	2	3	3	3	3	4	6	3	2			
Total number issued.....	4,879	5,472	5,786	5,575	5,783	5,949	5,486	6,130	5,751	5,765	5,001	4,646	4,543	4,374	4,361	4,112	3,980	4,014	3,441	3,921	2,271

* Licensed as Private Elevators.

† Licensed as Public Elevators.

‡ Licensed as Manufacturing Elevators.

** Licensed as Terminal Elevators.

(g) GRAIN LOADING PLATFORMS

During the year 1938 no applications were made to the Board under Section 60 of the Canada Grain Act for the erection or enlarging of any loading platforms.

SUMMARIZED STATEMENT OF GRAIN LOADING PLATFORMS IN WESTERN CANADA

Province	Number of Platforms	Car Capacity
Manitoba.....	618	1,698
Saskatchewan.....	1,294	3,020
Alberta.....	734	1,515
British Columbia.....	35	66
Ontario.....	10	21
Total as at December 31, 1938.....	2,691	6,320

(h) ANNUAL REPORT OF STATISTICIAN

J. RAYNER, Esq., Secretary,
Board of Grain Commissioners,
Winnipeg, Man.

DEAR SIR,—I beg to submit the following report for the Crop Year 1937-38.

No new work of importance was added to the responsibilities of the Statistics Branch during the year.

The very efficient services of the Board's representative in London, Mr. Jas. McAnsh, together with the whole-hearted co-operation of the Canadian Trade Commissioners and grain and vessels interests engaged in the handling of imported grain have made possible a more complete set of statements showing the final distribution of exports of Canadian grain and wheat flour during the crop year, copies of which are appended. The wheat flour data were compiled by Mr. McAnsh from details supplied by the Canadian National Millers' Association. It will be observed, also, Durum wheat figures are shown separately from wheat of other varieties.

The valuable support of the New York Produce Exchange and the Philadelphia Commercial Exchange in furnishing details of cargoes of Canadian grain shipped from U.S. Atlantic seaboard ports, which are essential if complete records are to be available, is most gratefully acknowledged.

MARKETING AND MOVEMENT

The disastrous effects of drought, wind and insect pests upon the grain crops during the growing season of 1937 over a wide area in Saskatchewan and Alberta, brought about a very serious lowering of the total yields in the prairie provinces, with consequent closing of a large number of country elevators; curtailment of volume available for movement and handling in the course of transportation to overseas markets; and the payment of unusually large premiums over the nearby future for high-grade milling wheat. The following data show the monthly averages of daily quotations for 1 Northern and 2 Northern wheat as compared with the daily close of the nearby future (in cents and eighths of a cent per bushel).

	Nearby Future	1 Nor.	2 Nor.	3 Nor.	Average Premium for 1 Nor.
1937					
August-October.....	125/3	131/6	125/6	122	6/3
September-October.....	127/2	133/5	129	121/1	6/3
October-November.....	124	142/2	135/6	117/2	18/2
November-December.....	112/1	134/5	129/5	110/3	22/4
December-May.....	116/2	137/3	132/5	116/3	21/1
1938					
January-May.....	126/2	149/1	139/1	121/3	22/7
February-May.....	127/5	144/5	136/6	121/3	17
March-May.....	120/2	138/3	132/2	114/3	18/1
April-May.....	123/1	138/3	129/3	116/3	15/2
May-July.....	102/5	115/2	112	106/4	12/5
June-July.....	104/7	114/2	111/5	104/7	9/3
July-July.....	98/1	98/3	95/4	90/7	/2

(NOTE.—The official discounts for delivery of 2 Nor. and 3 Nor. against the current future are 3c. and 8c. respectively.)

The movement of U.S.A. grain overseas via Canadian St. Lawrence ports during the fall of 1937 was resumed in 1938 and continued in good volume through the season of navigation. The partial failure of Argentine grain crops, through drought and heat, set free a large volume of ocean tonnage which normally is required to carry that country's exportable surplus overseas. Ocean freight rates on shipments from Canadian winter ports and St. Lawrence ports remained steady throughout the season at the minimum basis of 2/9 per quarter to London, Antwerp, Rotterdam, etc., as fixed by the North Atlantic Freight Conference for full cargoes.

Grain freight rates on the Great Lakes for the greater part of the season reflected the immediate conditions. The ore movement was expected to prove quite light as unusually large supplies remained over from the previous year. Grain rates advanced steadily from around 4 cents per bushel for shipments to St. Lawrence ports in April to 5 $\frac{3}{4}$ cents in August. In September prospects appeared good for a continued heavy movement of both Canadian and U.S.A. grain and charters were made for large quantities with the result rates rose rapidly, until, effective October 1, the Board issued an order establishing 7 cents per bushel as the maximum rate on wheat to St. Lawrence ports. Actually the tonnage market appeared to be oversold and higher rates not justified; vessels presently being nominated against charters made earlier in the season at somewhat lower rates; whilst the best rate two vessels could get in the open market for prompt loading was 6 $\frac{1}{2}$ cents and 6 $\frac{3}{4}$ cents respectively.

From Vancouver shipments were very light indeed, high rates to the end of 1937 preventing business being consummated freely. In March the minimum rate was reduced to 20 shillings per ton to British ports and this rate held until the end of June. Early in July some space was engaged at 18 and 20 shillings per ton to British ports. Early in August forward shipments were being booked at 20 to 22 $\frac{1}{2}$ shillings whilst tonnage for prompt loading was let at 15 shillings to 20 shillings until mid-September. For the balance of the year the rate varied between 20 and 25 shillings.

Two Norwegian vessels were loaded at Fort William-Port Arthur during the crop year with cargoes of wheat, amounting to 114,375 bushels for direct shipment to Denmark and Finland.

PORT CHURCHILL

Two vessels were loaded at Port Churchill during the crop year with 603,982 bushels of wheat. No grain was moved to Churchill from country points during the crop year for storage and shipment during the ensuing summer.

OFFICIAL WEIGH-UP OF GRAIN IN ELEVATORS

Following the annual weighing of stocks of grain stored in public, semi-public and private terminal elevators in the Western Division, detailed statements of the overages and shortages, by grades, were prepared and submitted to the Board. In addition statements "B" showing the amounts of excess or deficiency in the first four statutory grades of wheat in semi-public and private terminal elevators and of each individual grade of grain in public terminal elevators were compiled in the manner prescribed by section 138, Canada Grain Act.

No excess due to the Crown was revealed by these calculations. Summaries of the results of the weigh-up are appended.

GENERAL

In compliance with section 102, Canada Grain Act, certified copies of all insurance policies covering the value of grain in store in public and semi-public elevators were filed. These were carefully scrutinized to ensure their being in accordance with the Act. Values of grain in store in public and semi-public terminal elevators are calculated week by week and compared with the amount of insurance reported as in force to verify the amount as being sufficient. Values of grain stored in public country elevators where specific policies are in effect are calculated regularly so that should the total insurance appear insufficient to fully cover the value of the grain licensees are immediately instructed to place additional insurance unless the increase has taken place in the interim.

As required under section 21, Canada Grain Act, copies of publications containing prices of grain at certain principal markets have been obtained and placed on file for reference. Permanent records of daily quotations for cash and futures prices at Winnipeg, Vancouver, Liverpool, and other principal markets are maintained and monthly averages of the daily quotations calculated.

Copies of charter confirmations covering lake shipments of grain from Fort William-Port Arthur were filed by shippers in accordance with the Inland Water Freight Rates Act, 1923, as amended. These were carefully checked against official records of actual shipments and used in the compilation of weighted averages of freight rates charged for the carriage of grain via different routes, monthly, during the year.

The following statistics, compiled from returns received from the Inspection and Weighing Branches of the Board, from elevator licensees and from other official sources, indicate the amounts of grain handled by the different groups of elevators in the course of distribution between producer and consumer; and the amounts exported, consumed and remaining as carry-over at the close of the crop year, as compared with the total crop of the five principal grains harvested in Canada. Special statements are included showing the final disposition of Canadian grain exported overseas and details of grades exported via Canadian Seaboard ports.

CROP YEAR 1937-38 (ended 31st July)

	Carry-over July 31, 1937	Total crop* in Canada	Total disposed of during year	Carry-over July 31, 1938
	bush.	bush.	bush.	bush.
Wheat.....	37,048,839	182,410,000	194,922,981	24,535,858
Oats.....	18,266,043	268,442,000	267,209,390	19,498,653
Barley.....	4,796,213	83,124,000	81,289,279	6,630,934
Flaxseed.....	464,967	697,600	941,540	219,027
Rye.....	408,864	5,771,000	5,179,288	1,000,576

* 1937 crop estimates subject to slight final revision January 20, 1939.

GRAIN CROPS OF THE PRAIRIE PROVINCES, 1937*

—	Wheat	Oats	Barley	Flaxseed	Rye
	bush.	bush.	bush.	bush.	bush.
Manitoba.....	48,000,000	43,075,000	34,800,000	370,000	2,460,000
Saskatchewan.....	37,000,000	22,338,000	5,518,000	123,000	635,000
Alberta.....	74,000,000	77,000,000	22,100,000	124,000	1,185,000
Total.....	159,000,000	142,413,000	62,418,000	617,000	4,280,000

PLATFORM LOADINGS AT COUNTRY POINTS IN WESTERN CANADA

—	Wheat	Other grains	Total
	bush.	bush.	bush.
Manitoba.....	3,994,851	3,937,020	7,931,871
Saskatchewan.....	107,782	70,008	177,790
Alberta.....	2,144,924	1,689,220	3,834,144
Total.....	6,247,557	5,696,248	11,943,805

TOTAL DELIVERIES AT COUNTRY ELEVATORS

—	Wheat	Oats	Barley	Flaxseed	Rye
	bush.	bush.	bush.	bush.	bush.
Manitoba.....	33,330,024	6,565,603	15,876,303	202,335	1,092,672
Saskatchewan.....	25,547,919	5,046,520	1,452,743	127,442	175,624
Alberta and British Columbia	59,407,876	17,360,521	6,137,535	42,251	193,480
Total.....	118,285,819	28,972,644	23,466,581	372,028	1,461,776

TOTAL GRAIN INSPECTED, BY PROVINCES OF ORIGIN

Manitoba.....	40,385,000	6,506,000	17,481,750	192,500	1,107,780
Saskatchewan.....	25,173,000	2,433,000	1,513,800	108,500	135,075
Alberta and British Columbia	52,562,000	16,005,000	6,800,450	57,100	166,745
Total.....	118,120,000	24,944,000	25,796,000	358,100	1,409,600

TOTAL NET HANDLING AT FORT WILLIAM-PORT ARTHUR

Receipts.....	85,272,732	7,404,919	17,140,795	195,702	1,336,503
Shipments.....	85,030,761	7,502,745	17,223,629	365,574	841,000

TOTAL NET HANDLINGS AT VANCOUVER-NEW WESTMINSTER, B.C.

Receipts.....	7,496,785	1,696,429	2,366,628	1,077	49,017
Shipments.....	10,878,873	1,815,220	2,272,373	946	39,413

TOTAL NET HANDLINGS AT PRINCE RUPERT, B.C.

Receipts.....	910,940	1,063			
Shipments.....					

TOTAL NET HANDLINGS AT PORT CHURCHILL, HUDSON BAY

	Wheat	Oats	Barley	Flaxseed	Rye
	bush.	bush.	bush.	bush.	bush.
Receipts.....					
Shipments.....	603,982				

TOTAL NET HANDLINGS AT CANADIAN GOVERNMENT INTERIOR
TERMINAL ELEVATORS

<i>Receipts—</i>					
Calgary.....	29,077	254,776	371,020	1,674	
Edmonton.....	18,401	703,256	100,736		
Lethbridge.....	1,379,282			(U.S.A. Wheat) 3,171	
Moose Jaw.....	916,656	609,133	77,148		
Saskatoon.....	Closed				
Total.....	2,343,416	1,567,165	548,904	1,674 (U.S.A. Wheat) 3,171	
<i>Shipments—</i>					
Calgary.....	29,067	293,385	371,073	1,674	
Edmonton.....	46,234	702,651	103,449		
Lethbridge.....	1,375,288	862		(U.S.A. Wheat) 3,171	
Moose Jaw.....	912,896	543,905	47,610		
Saskatoon.....	Closed				
Total.....	2,363,485	1,540,803	522,132	1,674 (U.S.A. Wheat) 3,171	

TOTAL NET PRIMARY RECEIPTS AT INTERIOR PRIVATE TERMINAL AND MILL
ELEVATORS

Receipts.....	28,305,406	10,441,620	6,613,870	336,795	106,916
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TOTAL HANDLINGS OF CANADIAN GRAIN AT DULUTH-SUPERIOR—(INCLUDING
IMPORTS, DUTY-PAID, FROM FORT WILLIAM-PORT ARTHUR)

Receipts.....			447,641		
Shipments.....	369,848		150,000		

TOTAL PRIMARY HANDLINGS OF GRAIN AT EASTERN ELEVATORS

	Receipts	Shipments
	bush.	bush.
Canadian wheat.....	73,034,455	72,814,638
Canadian oats.....	5,905,801	5,863,427
Canadian barley.....	13,396,345	15,995,932
Canadian flaxseed.....	348,692	348,533
Canadian rye.....	895,193	673,784
Canadian corn.....	123,652	133,017
Canadian buckwheat.....	257,021	256,959
Canadian mixed grain.....	21,022	20,900
Canadian soya beans.....	3,650	
United States wheat.....	9,706,423	9,499,983
United States oats.....	10,172,271	9,221,421
United States barley.....	7,161,535	7,158,008
United States rye.....	3,242,989	3,424,932
United States corn.....	56,077,313	48,965,015
United States soya beans.....	1,093,056	1,084,903
South African corn.....	8,896,243	9,615,568
Argentine corn.....	3,249,407	6,445,996
Argentine flaxseed.....	2,645,931	2,703,500

IMPORTS OF FOREIGN GRAIN FOR CANADIAN DOMESTIC CONSUMPTION (AMOUNTS
MOVED FROM ELEVATORS INTO DOMESTIC CONSUMPTION)

	U.S.A. wheat	U.S.A. oats	U.S.A. corn	S. African corn	Argentine corn	Argentine flax
	bush.	bush.	bush.	bush.	bush.	bush.
Via Eastern elevators.....	4,240,354	8,732,826	1,477,199	7,541,987	1,167,696	1,088,255
Via Fort William-Port Arthur.....	2,871	97,558	19,994			
Via interior public terminals.....	3,171					
Via interior private terminals.....	767,409		489	9,969	22,333	19,923
Via country elevators.....	17,334	1,030,056	2,464	41,302		
Via Pacific coast elevators.....	234,174	5,206	71,536	648,237	278,358	
Total.....	5,265,313	9,865,646	1,571,682	8,241,495	1,468,387	1,108,178

QUANTITIES OF CANADIAN GRAIN SHIPPED IN VESSELS FROM FORT WILLIAM-
PORT ARTHUR TO CANADIAN AND UNITED STATES PORTS DURING THE CROP
YEAR 1937-38, ADJUSTED TO ALLOW FOR AMOUNTS RETURNED INTO CANADA
FROM U.S.A. LAKE PORTS.

	Wheat	Oats	Barley	Rye
	bush.	bush.	bush.	bush.
Total shipments—All ports.....	83,552,987	5,106,412	16,985,618	834,985
Shipped to Canadian ports.....	71,000,570	5,106,412	16,281,887	814,985
Shipped to U.S.A. ports.....	12,552,417	—	703,731	20,000
Returned from U.S.A. to Canadian ports.....	624,573			
Net total to U.S.A. ports.....	11,927,844		703,731	20,000
Net total to Canadian ports.....	71,625,143	5,106,412	16,281,887	814,985

DISTRIBUTION—BY FINAL COUNTRIES OF DESTINATIONS—OF CANADIAN GRAIN
EXPORTED OVERSEAS DURING CROP YEAR 1937-38

Country	From Canadian Pacific Seaboard	From Canadian St. Lawrence —Atlantic Seaboard	From Churchill and Fort William- Port Arthur	From U.S.A. Atlantic Seaboard	Total
	bush.	bush.	bush.	bush.	bush.
<i>Wheat (Other than Durum)—</i>					
Great Britain and Northern Ireland...	8,114,425	31,791,434	603,982	624,100	41,133,941
Irish Free State.....		3,009,430		294,000	3,303,430
Austria.....		39,984		42,327	82,311
Belgium.....	513,101	2,673,856		2,640,246	5,827,203
Denmark.....	56,000	357,752	57,533	1,758,483	2,229,768
Finland.....		243,454	56,842	567,480	867,776
France.....		806,976		1,006,056	1,813,032
Germany.....	964,000	197,866		15,670	1,177,536
Greece.....				74,957	74,957
Holland.....	401,430	1,236,554		1,193,325	2,831,309
Italy.....		112,770		23,989	136,759
Malta.....				148,674	148,674
Norway.....	112,000	1,595,528		690,711	2,398,239
Portuguese Colonies.....				20,532	20,532
Sweden.....	38,961	164,600		842,611	1,046,172
Switzerland.....	61,708	394,606		239,871	696,185
South Africa.....		103,106			103,106
Japan.....	511,338				511,338
Philippine Islands.....	917				917
Palestine and Syria.....				3,733	3,733
New Zealand.....	138,011				138,011
Colombia.....	28,008			163,572	191,580
Mexico.....				50,000	50,000
Central America.....	6,433			27,400	33,833
West Indies.....		6,100		9,496	15,596
Total—Wheat (Other than Durum).....	10,946,332	42,734,016	718,357	10,437,233	64,835,938
<i>Durum Wheat—</i>					
Great Britain and Northern Ireland...		2,206,500			2,206,500
Irish Free State.....					
Austria.....				18,667	18,667
Belgium.....		767,611		335,302	1,102,913
Denmark.....		8,000		11,998	19,998
Finland.....		64,000		50,383	114,383
France.....		1,393,010		623,937	2,016,947
Germany.....		63,520		484,176	547,696
Greece.....		1,532,382		966,135	2,498,517
Holland.....		11,828		8,000	19,828
Italy.....		94,922		15,087	110,009
Malta.....				70,786	70,786
Norway.....				8,000	8,000
Sweden.....		48,000		239,879	287,879
Switzerland.....		860,845		561,061	1,421,906
Algeria.....		385,053		116,522	501,575
Morocco.....		1,130,182		218,950	1,349,132
West Indies.....				7,000	7,000
Total—Durum Wheat.....		8,565,853		3,735,883	12,301,736

DISTRIBUTION—BY FINAL COUNTRIES OF DESTINATIONS—OF CANADIAN
GRAIN EXPORTED OVERSEAS DURING CROP YEAR 1937-38—*Continued*

Country	From Canadian Pacific Seaboard	From Canadian St. Lawrence —Atlantic Seaboard	From Churchill and Fort William— Port Arthur	From U.S.A. Atlantic Seaboard	Total
	bush.	bush.	bush.	bush.	bush.
<i>Wheat—All Varieties—</i>					
Great Britain and Northern Ireland...	8,114,425	33,997,934	603,982	624,100	43,340,441
Irish Free State.....		3,009,430		294,000	3,303,430
Austria.....		39,984		60,994	100,978
Belgium.....	513,101	3,441,467		2,975,548	6,930,116
Denmark.....	56,000	365,752	57,533	1,770,481	2,249,766
Finland.....		307,454	56,842	617,863	982,159
France.....		2,199,986		1,629,993	3,829,979
Germany.....	964,000	261,386		499,846	1,725,232
Greece.....		1,532,382		1,041,092	2,573,474
Holland.....	401,430	1,248,382		1,201,325	2,851,137
Italy.....		207,692		39,076	246,768
Malta.....				219,460	219,460
Norway.....	112,000	1,595,528		698,711	2,406,239
Portuguese Colonies.....				20,532	20,532
Sweden.....	38,961	212,600		1,082,490	1,334,051
Switzerland.....	61,708	1,255,451		800,932	2,118,091
Algeria.....		385,053		116,522	501,575
Morocco.....		1,130,182		218,950	1,349,132
South Africa.....		103,106			103,106
Japan.....	511,338				511,338
Philippine Islands.....	917				917
Palestine and Syria.....				3,733	3,733
New Zealand.....	138,011				138,011
Colombia.....	28,008			163,572	191,580
Mexico.....				50,000	50,000
Central America.....	6,433			27,400	33,833
West Indies.....		6,100		16,496	22,596
Total—Wheat, all Varieties.....	10,946,332	51,299,869	718,357	14,173,116	77,137,674
<i>Oats—</i>					
Great Britain and Northern Ireland...	1,094,147	2,681,070			3,775,217
Holland.....	33,600	404,965			438,565
Switzerland.....	56,471	37,617			94,088
China.....	48,047				48,047
Federated Malay States.....	5,206				5,206
Straits Settlements.....	2,941				2,941
Newfoundland.....		7,811			7,811
West Indies.....	57,663				57,663
Total.....	1,298,075	3,131,463			4,429,538
<i>Barley—</i>					
Great Britain and Northern Ireland...	2,116,033	11,461,438			13,577,471
Irish Free State.....		140,000			140,000
Belgium.....		74,752			74,752
France.....		37,043			37,043
Holland.....		172,835		124,268	297,103
Switzerland.....		254,148		59,805	313,953
China.....	5,208				5,208
Federated Malay States.....	150				150
Straits Settlements.....	23				23
Total.....	2,121,414	12,140,216		184,073	14,445,703

DISTRIBUTION—BY FINAL COUNTRIES OF DESTINATIONS—OF CANADIAN
GRAIN EXPORTED OVERSEAS DURING CROP YEAR 1937-38—*Concluded*

Country	From Canadian Pacific Seaboard	From Canadian St. Lawrence —Atlantic Seaboard	From Churchill and Fort William- Port Arthur	From U.S.A. Atlantic Seaboard	Total
	bush.	bush.	bush.	bush.	bush.
<i>Rye—</i>					
Great Britain and Northern Ireland.....		70,937			70,937
Belgium.....		123,628			123,628
Denmark.....		33,990			33,990
France.....		8,560			8,560
Holland.....		295,894			295,894
Switzerland.....		32,965			32,965
Total.....		565,974			565,974
<i>Buckwheat—</i>					
Great Britain and Northern Ireland.....		6,235			6,235
Belgium.....		50,102		1,600	51,702
Holland.....		181,232		9,998	191,230
Total.....		237,569		11,598	249,167

DISTRIBUTION—BY FINAL COUNTRIES OF DESTINATIONS—OF CANADIAN WHEAT
AND WHEAT FLOUR EXPORTED OVERSEAS DURING CROP YEAR 1937-38

Country	Wheat (Other than Durum)	Durum Wheat	Wheat Flour (Expressed as Wheat at 4½ bush. per barrel)	Total Wheat and Wheat Flour
	bush.	bush.	bush.	bush.
Great Britain and Northern Ireland and Irish Free State.....	44,437,371	2,206,500	9,406,465	56,050,336
Austria.....	82,311	18,667		100,978
Belgium.....	5,827,203	1,102,913	2,667	6,932,783
Belgian Colonies.....			1,699	1,699
Czechoslovakia.....			184	184
Denmark.....	2,229,768	19,998		2,249,766
Finland.....	867,776	114,383	67,181	1,049,340
France.....	1,813,032	2,016,947	621	3,830,600
French Colonies.....			76,756	76,756
Germany.....	1,177,536	547,696	361	1,725,593
Greece.....	74,957	2,498,517		2,573,474
Greenland-Iceland.....			9,967	9,967
Holland.....	2,831,309	19,828	70,147	2,921,284
Dutch Colonies.....			90,632	90,632
Italy.....	136,759	110,009	3,437	250,205
Malta.....	148,674	70,786	94,545	314,005
Norway.....	2,398,239	8,000	494,197	2,900,436
Portugal.....			450	450
Portuguese Colonies.....	20,532		38,464	58,996
Sweden.....	1,046,172	287,879	10,412	1,344,463
Switzerland.....	696,185	1,421,906		2,118,091
British East Africa.....			147	147
British South Africa.....	103,106		10,074	113,180
British West Africa.....			75,453	75,453
Southern Rhodesia.....			8,282	8,282
Egypt.....			8,229	8,229
Liberia.....			6,711	6,711
Algeria.....		501,575		501,575
Morocco.....		1,349,132		1,349,888
Aden.....			756	
China.....			1,170	1,170
Hong Kong.....			180,950	180,950
India.....			524,444	524,444
Japan.....	511,338		1,651	1,651
Palestine and Syria.....	3,733		9,846	521,184
Fiji Islands.....			4,823	8,556
Philippine Islands.....	917		31	31
Straits Settlements.....			599,383	600,300
Australia.....			9,334	9,334
New Zealand.....	138,011		926	926
Bolivia.....			450	138,011
Brazil.....			27,994	450
British Guiana.....			381,142	27,994
Colombia.....	191,580			381,142
Venezuela.....			85,945	191,580
Bermuda.....			116,428	85,945
West Indies.....	15,596	7,000	2,478,924	116,428
Central America.....	33,833		93,792	2,501,520
Mexico.....	50,000			127,625
Newfoundland.....			1,069,132	50,000
Alaska.....			19	1,069,132
U.S.A.—				19
For home consumption.....	108,125		179,220	287,345
For grinding in bond.....	2,096,421			2,096,421
Total.....	67,040,484	12,301,736	16,243,441	95,585,661

DISTRIBUTION—BY FINAL COUNTRIES OF DESTINATION—OF CANADIAN GRAIN EXPORTED OVERSEAS, MONTHLY, DURING THE CROP YEAR 1937-38

Country	August	September	October	November	December	January	February	March	April	May	June	July	Total
<i>Wheat—All Varieties—</i>													
Great Britain and Nor. Ireland.....	4,042,863	5,036,348	6,144,229	6,071,109	4,597,950	2,814,389	2,648,780	1,308,376	1,133,053	2,823,384	2,979,375	3,740,585	43,340,441
Irish Free State.....	267,897	128,000	637,987	563,788	152,000	332,794	284,154	144,055	39,988	380,607	134,100	216,000	3,303,430
Austria.....	8,000	8,900	45,357	22,647	442,908	471,745	1,170,340	72,984	116,218	635,847	527,507	212,323	6,930,116
Belgium.....	463,615	389,841	984,702	261,141	330,329	79,809	109,999	102,042	18,667	153,360	111,777	115,400	2,249,766
Denmark.....	304,581	306,914	296,347	190,285	33,985	95,714	17,839	35,139	46,795	153,521	31,200	165,740	982,159
Finland.....	30,191	102,584	177,330	130,285	225,492	90,251	112,230	306,017	138,889	806,702	617,880	377,780	3,829,979
France.....	209,980	294,177	438,989	241,512	225,492	174,567	182,190	503,651	8,000	818,612	12,890	182,664	1,725,232
Germany.....	173,353	60,584	20,000	152,190	589,463	558,194	82,097	362,653	362,653	362,653	324,000	186,408	2,573,474
Greece.....	95,783	339,079	339,079	550,710	200,239	7,945	93,003	112,082	96,828	44,156	116,009	25,413	2,851,137
Holland.....	120,756	23,989	59,961	13,600	23,087	37,200	14,920	286,621	22,390	298,667	103,666	262,200	2,406,239
Italy.....	22,298	48,551	74,121	242,667	120,000	246,345	157,745	2,800	.....	55,840	142,880	236,382	1,334,051
Norway.....	246,400	201,128	240,800	153,032	183,853	43,973	164,133	38,961	65,952	366,943	167,971	251,137	2,118,091
Portuguese Colonies.....	74,462	133,950	100,585	153,032	183,853	43,973	164,133	38,961	.....	.....	.....	.....	501,575
Sweden.....	135,568	122,891	236,017	500,179	114,820	35,757	56,856	4,000	.....	.....	.....	.....	1,349,132
Switzerland.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	103,106
Algeria.....	.....	.....	502,683	846,449	8,397	934	9,237	10,260	1,299	2,333	2,800	17,333	511,338
Morocco.....	.....	.....	16,166	11,200	8,397	934	9,237	10,260	1,299	2,333	2,800	17,333	917
British South Africa.....	11,200	11,947	16,166	11,200	8,397	934	9,237	10,260	1,299	2,333	2,800	17,333	3,733
Japan.....	173,300	136,633	196,467	4,938	167	.....	83	84	83	83	84	83	83
Philippine Islands.....	167	83	3,733	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palestine and Syria.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
New Zealand.....	37,333	1,000	43,800	.....	.....	.....	18,667	.....	.....	27,048	.....	10,163	138,011
Colombia.....	50,573	20,974	22,995	24,375	8,250	11,750	12,995	18,124	10,562	750	2,500	7,732	191,580
Mexico.....	.....	.....	.....	50,000	.....	.....	.....	.....	.....	.....	.....	.....	50,000
Central America.....	12,450	10,576	5,475	2,392	3,000	.....	.....	.....	.....	.....	.....	.....	33,893
West Indies.....	3,900	4,420	1,560	820	460	480	520	2,520	1,520	1,500	2,450	2,440	22,596
Total exported overseas.....	6,388,867	7,169,263	10,584,433	11,633,378	7,186,590	5,012,093	5,139,331	3,264,121	2,178,819	7,318,252	5,352,738	5,909,789	77,137,674
U.S.A.—													
For home consumption.....	101,400	1,274	603	60	180	3,462	110	462	566	8	.....	.....	108,125
For grinding in bond.....	766,290	452,105	348,167	182,527	78,000	50,293	25,400	7,650	6,700	46,130	86,050	47,109	2,096,421
Grand total wheat exported.....	7,256,557	7,622,642	10,933,203	11,815,965	7,264,770	5,065,848	5,164,841	3,272,233	2,186,085	7,364,390	5,438,788	5,956,898	79,342,220

DISTRIBUTION—BY FINAL COUNTRIES OF DESTINATION—OF CANADIAN GRAIN EXPORTED OVERSEAS, MONTHLY, DURING THE CROP YEAR 1937-38—
Concluded

Country	August	September	October	November	December	January	February	March	April	May	June	July	Total
<i>Oats—</i>	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.
Great Britain and Northern Ire- land.....	353,755	113,114	301,177	436,938	513,211	232,942	252,706	106,057	194,446	318,049	575,270	437,552	3,775,217
Holland.....	28,235	37,647	.....	141,602	9,408	18,823	18,823	83,548	15,895	65,756	9,386	65,882	438,565
Switzerland.....	18,824	.....	1,470	2,059	4,831	4,203	3,006	4,859	6,536	4,477	5,494	1,573	94,088
China.....	5,368	4,171	.....	.....	765	441	736	441	294	618	588	5,206	48,047
Federated Malay States.....	.....	294	176	177	176	235	176	294	177	177	294	176	2,941
Straits Settlements.....	706	177	7,811	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,811
Newfoundland.....	.....	.....	2,965	2,141	6,871	4,188	8,306	8,353	5,757	7,059	5,176	4,730	7,811
West Indies.....	1,647	470	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	57,663
Total.....	408,535	155,873	313,893	583,358	535,262	260,832	283,753	222,376	163,105	395,812	596,208	510,531	4,429,538
<i>Barley—</i>													
Great Britain and Northern Ire- land.....	742,531	1,447,657	1,974,011	1,993,470	816,283	848,789	705,816	616,500	278,048	1,612,818	1,382,754	1,158,794	13,577,471
Irish Free State.....	.....	5,913	38,429	30,410	.....	.....	.....	.....	.....	.....	140,000	.....	140,000
Belgium.....	.....	4,590	23,120	9,333	.....	.....	.....	.....	.....	.....	74,752	.....	74,752
France.....	.....	14,641	115,867	116,410	20,185	.....	.....	20,000	10,000	.....	37,043	.....	37,043
Holland.....	.....	165,563	85,985	24,614	.....	.....	.....	.....	24,791	.....	313,953	.....	297,103
Switzerland.....	13,000	.....	.....	417	521	625	625	625	.....	312	.....	625	313,953
China.....	625	208	13	12	13	12	13	13	13	13	19	18	5,208
Federated Malay States.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150
Straits Settlements.....	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
Total.....	756,179	1,638,584	2,237,425	2,174,666	837,002	849,426	708,454	637,137	313,477	1,613,143	1,522,773	1,159,437	14,445,703
<i>Rye—</i>													
Great Britain and Northern Ire- land.....	.....	.....	8,571	14,702	4,785	17,181	.....	8,554	.....	8,572	.....	8,572	70,937
Belgium.....	62,590	19,286	8,572	.....	.....	.....	.....	.....	.....	8,663	15,664	8,663	123,628
Denmark.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,276	.....	25,714	33,990
France.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	47,486	8,560	8,560
Holland.....	96,014	25,714	44,271	8,572	8,565	.....	.....	.....	.....	39,558	25,714	25,714	295,894
Switzerland.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,880	7,942	17,143	32,965
Total.....	158,604	45,000	61,414	23,274	13,350	17,181	.....	8,554	313,477	73,139	71,092	94,366	565,674
<i>Buckwheat—</i>													
Great Britain and Northern Ire- land.....	.....	.....	.....	.....	1,247	.....	.....	.....	2,527	2,461	.....	.....	6,235
Belgium.....	.....	.....	10,000	21,600	.....	15,000	.....	.....	.....	.....	5,102	.....	51,702
Holland.....	.....	.....	20,176	112,380	.....	10,363	48,311	.....	.....	.....	.....	.....	191,230
Total.....	.....	.....	30,176	133,980	1,247	25,363	48,311	.....	2,527	2,461	5,102	.....	249,167

GRADES OF CANADIAN GRAIN EXPORTED OVERSEAS VIA CANADIAN PORTS,*
CROP YEAR 1937-38

Grade	Via Canadian Pacific Seaboard Ports	Via St. Lawrence and Atlantic Seaboard Ports	Via Churchill and Fort William- Port Arthur (Direct)	Total
	bush.	bush.	bush.	bush.
<i>Wheat—</i>				
1 Manitoba Hard.....	618,961	121,703	8,383	749,047
1 Manitoba Northern.....	1,456,957	14,218,589	306,287	15,981,833
2 Manitoba Northern.....	1,218,272	6,849,296	8,459	8,076,027
Old 2 Manitoba Northern.....		48,286		48,286
3 Manitoba Northern.....	6,056,012	13,943,115	368,986	20,368,113
4 Manitoba Northern.....	1,325,838	6,019,979	26,242	7,372,059
Number 5.....	214,293	182,136		396,429
Number 6.....		51,425		51,425
No. 4 Special.....		151,282		151,282
Feed.....	46,666	333,069		379,735
1 C.W. Garnet.....		502,534		502,534
2 C.W. Garnet.....	9,333	132,135		141,468
Others.....		180,468		180,468
1 C.W. Amber Durum.....		1,048,940		1,048,940
2 C.W. Amber Durum.....		6,559,907		6,559,907
3 C.W. Amber Durum.....		925,038		925,038
Others Durum.....		31,967		31,967
Total.....	10,946,332	51,299,869	718,357	62,964,558
<i>Oats—</i>				
2 C.W. White.....	37,178	149,904		187,082
3 C.W.....	106,182	622,808		728,990
Ex. 1 Feed.....	1,059			1,059
1 Feed.....	1,012,883	983,761		1,996,644
2 Feed.....	57,051	263,427		320,478
Mixed Feed.....	66,535	1,083,064		1,149,599
Others.....	17,187	28,499		45,686
Total.....	1,298,075	3,131,463		4,429,538
<i>Barley—</i>				
3 Ex. C.W. Six-Row.....		2,833,484		2,833,484
3 C.W.....	1,658,789	9,290,907		10,949,696
4 C.W.....	445,200	15,825		461,025
5 C.W.....	16,333			16,333
Others.....	1,092			1,092
Total.....	2,121,414	12,140,216		14,261,630
<i>Rye—</i>				
2 C.W.....		418,835		418,835
3 C.W.....		147,139		147,139
Total.....		565,974		565,974

*Details of grades shipped via U.S.A. Atlantic Seaboard ports not available.

EXPORT CLEARANCES OF CANADIAN GRAIN TO OVERSEAS DESTINATIONS—
CROP YEAR 1937-38—BY PORTS AT WHICH LOADED

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Buckwheat
	bush.	bush.	bush.	bush.	bush.
Vancouver-New Westminster.....	10,035,392	1,298,075	2,121,414		
Prince Rupert.....	910,940				
Port Churchill.....	603,982				
Fort William-Port Arthur.....	114,375				
Montreal.....	37,542,948	2,822,553	9,201,401	526,889	237,569
Sorel.....	3,290,062		194,545		
Three Rivers.....	1,098,093		541,779		
Quebec.....	496,087	9,386	351,052		
St. John.....					
West St. John.....	8,712,711	299,524	1,851,439	39,085	
Halifax.....	159,968				
Total—Canadian ports.....	62,964,558	4,429,538	14,261,630	565,974	237,569
New York.....	12,035,218		144,161		11,598
Albany.....	1,313,632				
Philadelphia.....	443,182				
Baltimore.....	152,519		39,912		
Boston.....	228,565				
Total—U.S.A. ports.....	14,173,116		184,073		11,598
Grand Total.....	77,137,674	4,429,538	14,445,703	565,974	249,167

OVERSEAS EXPORTS OF CANADIAN GRAIN, MONTHLY, BY GROUPS OF PORTS
FROM WHICH SHIPPED, CROP YEAR 1937-38

	Wheat (All varieties)	Oats	Barley	Rye	Buckwheat
	Bush.	Bush.	Bush.	Bush.	Bush.
<i>Via Canadian Pacific Seaboard Ports—</i>					
August, 1937.....	269,746	7,721	648		
September, 1937.....	331,104	5,112	221		
October, 1937.....	1,243,377	4,906	12		
November, 1937.....	1,332,901	4,818	429		
December, 1937.....	2,030,642	356,087	76,133		
January, 1938.....	1,473,993	242,009	453,788		
February, 1938.....	1,584,825	264,929	514,788		
March, 1938.....	1,018,257	169,147	293,237		
April, 1938.....	662,127	133,631	70,637		
May, 1938.....	312,731	74,595	235,292		
June, 1938.....	194,895	28,023	396,252		
July, 1938.....	491,734	7,097	79,977		
Total.....	10,946,332	1,298,075	2,121,414		
<i>Via Canadian St. Lawrence-Atlantic Sea- board Ports—</i>					
August, 1937.....	4,572,335	400,814	755,531	158,604	
September, 1937.....	5,379,105	150,761	1,638,363	45,000	
October, 1937.....	6,888,254	308,987	2,222,423	61,414	30,176
November, 1937.....	8,509,680	578,540	2,080,130	23,274	132,380
December, 1937.....	3,503,777	179,175	740,684	13,350	1,247
January, 1938.....	2,165,076	18,823	395,638	17,181	25,363
February, 1938.....	1,772,083	18,824	191,666		38,313
March, 1938.....	1,039,088	53,229	323,900	8,554	
April, 1938.....	945,947	29,474	208,049		2,527
May, 1938.....	6,850,427	321,217	1,377,851	73,139	2,461
June, 1938.....	5,001,730	568,185	1,126,521	71,092	5,102
July, 1938.....	4,672,367	503,434	1,079,460	94,366	
Total.....	51,299,869	3,131,463	12,140,216	565,974	237,569
<i>Via Churchill—</i>					
August, 1937.....	603,982				
September, 1937 to July, 1938.....					
Total.....	603,982				
<i>Via Fort William-Port Arthur—</i>					
October, 1937.....	57,533				
November, 1937.....	56,842				
December, 1937, to July, 1938.....					
Total.....	114,375				
<i>Via U.S.A Atlantic Seaboard Ports—</i>					
August, 1937.....	942,804				
September, 1937.....	1,459,054				
October, 1937.....	2,395,269		14,990		
November, 1937.....	1,733,955		94,107		1,600
December, 1937.....	1,652,171		20,185		
January, 1938.....	1,373,024				
February, 1938.....	1,782,423				9,998
March, 1938.....	1,206,776		20,000		
April, 1938.....	570,745		34,791		
May, 1938.....	155,094				
June, 1938.....	156,113				
July, 1938.....	745,688				
Total.....	14,173,116		184,073		11,598

EXPORT CLEARANCES OF CANADIAN WHEAT AND WHEAT FLOUR, MONTHLY, CROP YEAR 1937-1938 (ENDED JULY 31)

Month	Canadian Pacific Seaboard Ports	Canadian Atlantic Seaboard Ports	Churchill	Fort William- Port Arthur	U.S. Atlantic Seaboard Ports	U.S.A. Imports*		Total All Wheat	Wheat Flour (expressed as Wheat at 4½ bush. per barrel)	Total Wheat and Flour
						Con- sumption Duty-Paid	Milling in Bond			
1937	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.
	269,746	4,572,335	603,982	.....	942,804	101,400	766,290	7,256,557	1,293,736	8,555,293
	331,104	5,379,105	.....	.....	1,459,054	1,274	452,105	7,622,642	1,379,947	9,002,589
	1,243,377	6,888,254	.....	57,533	2,395,269	603	348,167	10,933,203	1,514,141	12,447,344
	1,332,901	8,509,680	.....	56,842	1,733,955	60	182,527	11,815,965	1,826,644	13,642,609
	2,030,642	3,503,777	.....	.....	1,652,171	180	78,000	7,264,770	1,519,551	8,784,321
1938	1,473,993	2,165,076	.....	.....	1,373,024	3,462	50,293	5,065,848	1,330,992	6,396,840
	1,584,825	1,772,083	.....	.....	1,782,423	110	25,400	5,164,841	1,226,196	6,391,037
	1,018,257	1,039,088	.....	.....	1,206,776	462	7,650	3,272,233	1,357,809	4,630,042
	662,127	945,947	.....	.....	570,745	566	6,700	2,186,085	831,163	3,017,248
	312,731	6,850,427	.....	.....	155,094	8	46,130	7,364,390	1,337,067	8,701,457
	194,895	5,001,730	.....	.....	156,133	.....	86,050	5,438,788	1,347,763	6,786,551
	491,734	4,672,367	.....	.....	745,688	.....	47,109	5,956,898	1,273,432	7,230,330
	10,946,332	51,299,869	603,982	114,375	14,173,116	108,125	2,096,421	79,342,220	16,243,441	95,585,661
Total 1937-38	32,587,003	84,792,232	4,293,501	571,371	23,642,065	30,288,923	13,232,247	189,407,342	†	†
Total 1936-37	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* U.S.A. official figures.

† Not available.

SUMMARY OF SURPLUSES AND DEFICITS

Licensee	Wheat		Oats		Mixed Feed Oats		Barley		Mixed Grain	
	Surplus	Deficit	Surplus	Deficit	Surplus	Deficit	Surplus	Deficit	Surplus	Deficit
<i>Canadian Government—</i>										
Calgary.....	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.	pounds	pounds
		12-20	426-06				368-36			
Edmonton.....		77-30	675-00				109-14			
Lethbridge.....		1,918-00			347-02				5,620	
Totals.....		2,007-50	1,101-06		347-02		478-02		5,620	
Net Total—Surplus or Deficit.....	2,007-50		1,101-06		347-02		478-02		5,620	

ANNUAL WEIGH-UP, JULY 31, 1938

SUMMARY of results of calculations of EXCESS or DEFICIENCY in the first four statutory grades of WHEAT, as revealed by the annual weigh-up, July 31st, 1938, of grain in store in PUBLIC TERMINAL ELEVATORS in the WESTERN DIVISION, and arrived at in the manner prescribed in section 138, Canada Grain Act, 1930, and amendments thereto.

LICENSEE	EXCESS				DEFICIENCY			
	1 Hard	1 Northern	2 Northern	3 Northern	1 Hard	1 Northern	2 Northern	3 Northern
Canadian Government—	bush.	bush.	bush.	bush.	bush.	bush.	bush.	bush.
				2-10			9-50	
						28-10	11-10	51-10
						126-10	229-20	34-40
Calgary.....								
Edmonton.....								
Lethbridge.....					31-10	5,845-30		

There is no excess due to the Crown in the first four statutory grades of wheat from the above elevators.

SUMMARY of results of calculations of EXCESS or DEFICIENCY in the first four statutory grades of WHEAT, as revealed by the annual weigh-up, July 31, 1938, of grain in store in SEMI-PUBLIC TERMINAL ELEVATORS, FORT WILLIAM-PORT ARTHUR, and arrived at in the manner prescribed in section 138, Canada Grain Act, 1930, and amendments thereto.

LICENSEE	EXCESS			DEFICIENCY		
	1 Hard	1 Northern	2 Northern	3 Northern	1 Hard	1 Northern
	bush.	bush.	bush.	bush.	bush.	bush.
Bawlf Terminal Elevator Co. Ltd.						
Canadian Consolidated Grain Co. Ltd.—						
"Empire"						
"Thunder Bay"						
Eastern Terminal Elevator Co. Ltd.—						
"Richardson"						
Federal Grain Limited—						
"Consolidated"		1-00				
"Northwestern"						
Fort William Elevator Co. Ltd.						
Grand Trunk Pacific Elevator Co. Ltd.		148-50				
Manitoba Pool Elevators Limited—						
"Number 1"			4,142-50			
"Number 2"			4,725-00			
"Number 4"						
"Number 5"		-10				
McCabe Bros. Grain Co. Ltd.						
Ogilvie Flour Mills Co. Ltd.						
N. M. Paterson & Co. Ltd.		1,055-40				
Reliance Grain Co. Ltd.						
Saskatchewan Pool Terminals Limited—		262-10	124-40			
"Number 7"						
Searle Terminal Limited						
Superior Elevator Co. Ltd.—						
"P. & H."		601-10				
Union Terminal Limited						
United Grain Growers Terminals Ltd.						
Western Grain Co. Ltd.						

There is no excess due to the Crown from the above elevators.

APPENDIX No. 2

COMMITTEES ON GRAIN STANDARDS

COMMITTEE ON WESTERN GRAIN STANDARDS

- E. B. Ramsay, Chief Commissioner, Board of Grain Commissioners.
 D. A. MacGibbon, Commissioner, Board of Grain Commissioners.
 C. M. Hamilton, Commissioner, Board of Grain Commissioners.
 J. D. Fraser, Chief Inspector, Board of Grain Commissioners.
 James Cuddy, Chairman, Grain Appeal Tribunal, Winnipeg.
 C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton.
 J. Watson, Chairman, Grain Appeal Tribunal, Calgary.
 Dr. W. F. Geddes, Chemist in Charge, Grain Research Laboratory.
 L. H. Newman, Dominion Cerealists.
 H. Sellers, representing Millers of Wheat Flour.
- | | | | | |
|---|---|--|---|---|
| George Bennett,
W. H. Fairfield,
R. H. MacDonald,
B. S. Plumer, | } | representing Grain Growers in Alberta. | | |
| Dr. L. E. Kirk.
J. Wellbelove,
W. Wright,
G. E. Canfield,
A. Sproule, | | } | representing Grain Growers in Saskatchewan. | |
| P. F. Brett,
Dr. J. H. Craigie,
J. Quick, | | | } | representing Grain Growers in Manitoba. |
| G. Constable, representing Grain Growers in British Columbia. | | | | |

COMMITTEE ON EASTERN GRAIN STANDARDS

- D. A. MacGibbon, Commissioner, Board of Grain Commissioners.
 C. M. Hamilton, Commissioner, Board of Grain Commissioners.
 Norman Wright, representing Montreal Board of Trade.
 E. D. Sullivan, representing Toronto Board of Trade.
 T. A. Climo, representing Exporters of Grain.
- | | | |
|---|---|--|
| C. H. G. Short,
J. J. Page, | } | representing Millers of Wheat in the Eastern Division. |
| R. J. Scott,
H. Currie, | | } |
| W. G. Thompson, additional.
J. M. Vittie, additional.
G. E. McConney, additional. | | |

APPENDIX No. 3

GRAIN APPEAL TRIBUNALS

<i>Winnipeg</i>	<i>Calgary</i>	<i>Edmonton</i>
James Cuddy (Chairman).	J. Watson (Chairman).	C. R. Manahan (Chairman)
Grant Hammond.	F. T. Allison.	J. W. Allen.
J. McMahon.	J. A. Harris.	W. N. Boyle.
A. F. Moore.	W. McLeod.	A. Fraser.
J. Murray.	E. J. Munson.	C. C. Gillies.
S. C. Swanton.	G. C. Arbuthnott.	J. A. Kyle.
C. J. Wells.	A. Watson.	L. T. Ingram.
P. V. Wright.	J. D. Russell.	R. H. Settle.
D. Baxter (Secretary).	E. S. Munro (Secretary).	F. J. Wolfe.
		John Blue (Secretary).
<i>Toronto</i>	<i>Montreal</i>	
G. D. Brundrit.	B. J. Bolan.	
C. H. Coatsworth.	A. Chaplin.	
R. C. Pratt.	F. B. Earle.	
N. H. Campbell.		
C. W. Heimbecker.		
L. S. Johnston.		
W. N. McCarthy.		
G. E. McConney.		
E. D. Sullivan.		
K. F. Wadsworth.		

SUMMARY OF APPEALS FOR THE CROP YEAR ENDED JULY 31, 1938

—	Number of appeals held	Number of appeals allowed		Number of appeals dis-allowed
		Raised	Lowered	
Winnipeg.....	1,398	210	3	1,18
Calgary.....	231	45	4	18
Edmonton.....	32	2	.....	3
Toronto.....	.....	.....	.....	T
Montreal.....	.....	.....	.....	.....

APPENDIX No. 4

REPORT OF REGISTRAR

WINNIPEG, MAN., January 4, 1939.

THE SECRETARY,

Board of Grain Commissioners for Canada.

Winnipeg, Manitoba.

DEAR SIR,—There is submitted hereunder statement showing the total registrations and registrations for cancellation of terminal elevator warehouse receipts and Eastern warehouse receipts or transfer receipts during the crop year ended August 31, 1938:—

	Bushels Registered	Bushels Registered for Cancellation
<i>Winnipeg—</i>		
Wheat.....	98,463,483-50	92,640,447-20
Oats.....	7,908,956-12	8,897,663-11
Barley.....	18,443,063-38	18,092,985-30
Flax.....	249,672-47	444,758-13
Rye.....	2,129,137-51	1,895,049-26
Mixed Grain.....	113,487-32	50,595-40
Barley Malt.....	559,428-22	559,428-22
Corn.....	123,582-28	125,381-04
<i>Vancouver—</i>		
Wheat.....	7,840,428-30	11,729,179-20
Oats.....	1,467,932-27	1,471,285-30
Barley.....	2,323,749-18	2,268,677-44
Flax.....	115-30	451-24
Rye.....	9,406-02	9,045-20
Mixed grain.....	11,442-10	10,018-00
Corn.....	184,577-28	184,229-36
<i>Calgary—</i>		
Wheat.....	30,604-10	31,580-00
Oats.....	254,775-30	251,314-06
Barley.....	371,220-14	371,073-06
Flax.....	1,673-36	1,673-36
Mixed grain.....		344-20
<i>Edmonton—</i>		
Wheat.....	20,575-10	46,645-20
Oats.....	697,623-18	702,589-04
Barley.....	107,170-28	99,948-26
Mixed grain.....	653-40	653-40
<i>Lethbridge—</i>		
Wheat.....	1,303,206-30	1,370,839-40
<i>Total—</i>		
Wheat.....	107,658,297-50	105,818,691-40
Oats.....	10,329,287-53	11,322,852-17
Barley.....	21,245,204-02	20,832,685-10
Flax.....	251,462-01	446,883-17
Rye.....	2,138,543-53	1,904,094-46
Mixed grain.....	125,583-32	61,612-00
Barley malt.....	559,428-22	559,428-22
Corn.....	308,160-00	309,610-40

REPORT OF REGISTRAR—Conc.

EASTERN WAREHOUSE RECEIPTS OR TRANSFER RECEIPTS

	Bushels Registered	Bushels Registered for Cancellation
<i>Montreal—</i>		
Wheat.....	127,499,920-40	129,463,917-10
Oats.....	21,588,450-26	18,422,592-20
Barley.....	41,213,365-05	42,048,697-24
Flax.....	2,255,281-04	2,635,185-44
Rye.....	5,862,715-54	6,721,530-17
Mixed grain.....	33,205-08	33,204-42
Corn.....	122,290,659-14	121,555,564-31
Screenings.....	592,398-20	508,366-40
Beans.....	1,333,668-10	1,326,668-10
Buckwheat.....	264,426-52	233,646-22

Yours respectfully,

W. T. TODD,

Registrar.

APPENDIX No. 5

REPORT OF CHIEF GRAIN INSPECTOR

October 17, 1938.

MR. J. RAYNER,

Secretary, Board of Grain Commissioners,
Winnipeg, Man.

DEAR SIR,—I herewith submit my annual report covering car and cargo inspections in the Western Division; car and cargo inspections and sampling in the Eastern Division, for the crop year ending July 31, 1938.

The crop of 1937 in the Western Division was very severely affected by drought over a very wide area, which cut the yield of grain, resulting in the shortest crop since the year 1910. The crop was harvested under good conditions, and the grain produced was of a high grade and excellent quality.

The total number of cars inspected in the Western Division for the year 1937-1938 was 113,491, as against 154,412 for the previous year, a decrease of 40,921 cars.

Yours truly,

JAS. D. FRASER,

Chief Grain Inspector

WESTERN DIVISION

The total primary inspections in the Western Division from August 1, 1937, to July 31, 1938, are made up as follows:—

	Cars	Percentages
Wheat.....	83,126	73.245
Oats.....	12,759	11.242
Barley.....	15,988	14.088
Flax.....	347	.306
Rye.....	1,029	.907
Mixed Grain.....	99	.087
Corn.....	40	.035
Screenings.....	103	.090
Total.....	113,491	100.000

The grades of Wheat are as follows:—

	Cars	Per- centages	Totals	Percentage of total Inspections
1 Manitoba Hard.....	98	.151		
1 Manitoba Northern.....	15,371	23.629		
2 Manitoba Northern.....	16,399	25.209		
3 Manitoba Northern.....	22,981	35.328		
4 Manitoba Northern.....	3,751	5.766		
No. 5.....	628	.965		
No. 6.....	137	.211		
Feed.....	169	.260		
Sample.....	15	.023		
Smutty.....	195	.300		
Tough.....	3,635	5.588		
Damp.....	158	.243		
Rejected.....	183	.281		
No. 4 Special.....	783	1.204		
No. 5 Special.....	376	.578		
No. 6 Special.....	172	.264		
Total Red Spring Wheats.....	65,051	100.000	65,051	78.256
1 Garnet.....	1,917	55.743		
2 Garnet.....	1,469	42.716		
Smutty.....	6	.175		
Tough.....	29	.843		
Rejected.....	18	.523		
Total Garnet Wheats.....	3,439	100.000	3,439	4.137
1 Amber Durum.....	459	3.184		
2 Amber Durum.....	8,513	59.052		
3 Amber Durum.....	4,599	31.902		
4 Amber Durum.....	325	2.254		
5 Amber Durum.....	22	.153		
6 Amber Durum.....	4	.028		
Smutty Amber Durum.....	22	.153		
Tough Amber Durum.....	76	.527		
Damp Amber Durum.....	20	.139		
Rejected Amber Durum.....	314	2.178		
Sample Amber Durum Broken Wheat.....	61	.423		
Sample Amber Durum and Ragweed.....	1	.007		
Total Amber Durum Wheat.....	14,416	100.000	14,416	17.342
2 White Spring.....	5	27.778		
3 White Spring.....	10	55.555		
Tough White Spring.....	3	16.667		
Total White Spring Wheat.....	18	100.000	18	.022

The grades of Wheat are as follows:—*Concluded.*

	Cars	Per- centages	Totals	Percentage of total Inspections
1 Mixed Wheat.....	12	20.339		
2 Mixed Wheat.....	4	6.779		
3 Mixed Wheat.....	15	25.424		
4 Mixed Wheat.....	20	33.898		
5 Mixed Wheat.....	2	3.390		
Tough Mixed Wheat.....	3	5.085		
Sample Mixed Wheat.....	1	1.695		
Rejected Mixed Wheat.....	2	3.390		
Total Mixed Wheat.....	59	100.000	59	.071
1 Alberta Red Winter.....	41	28.672		
2 Alberta Winter.....	53	37.063		
3 Alberta Winter.....	21	14.685		
Tough Alberta Winter.....	4	2.797		
Smutty Alberta Winter.....	24	16.783		
Total Alberta Winter Wheat.....	143	100.000	143	.172
Total.....	83,126		83,126	100.000

The grades of Oats are as follows:—

	Cars	Per- centages
2 C.W. White.....	1,242	9.734
3 C.W.....	3,331	26.107
Special Feed.....	1	.008
Ex. 1 Feed.....	489	3.833
1 Feed.....	3,899	30.559
2 Feed.....	610	4.781
3 Feed.....	63	.493
Mixed Feed Oats.....	16	.125
Rejected Oats.....	11	.086
Sample.....	2	.016
Tough.....	2,988	23.419
Damp.....	106	.831
Oat Groats.....	1	.008
Total.....	12,759	100.000

The grades of Barley are as follows:—

	Cars	Percentages
2 C.W. (Six-row).....	16	.100
3 Ex. C.W. (Six-row).....	5,170	32.337
2 C.W. (Two-row).....	1	.006
3 Ex. C.W. (Two-row).....	80	.500
3 Ex. C.W. (Tribi).....	4	.025
3 C.W.....	6,277	39.261
4 C.W.....	1,043	6.524
5 C.W.....	741	4.633
6 C.W.....	93	.582
Rejected.....	4	.025
Sample.....	3	.019
Tough.....	2,184	13.660
Damp.....	372	2.320
Total.....	15,988	100.000

The grades of Flax are as follows:—

	Cars	Percentages
1 C.W.....	282	81.268
2 C.W.....	26	7.492
3 C.W.....	6	1.729
4 C.W.....	2	.577
Sample.....	1	.288
Tough.....	29	8.358
Damp.....	1	.288
Total.....	347	100.000

The grades of Rye are as follows:—

	Cars	Percentages
1 C.W.....	8	.777
2 C.W.....	732	71.137
3 C.W.....	227	22.060
4 C.W.....	15	1.458
Ergoty Rye.....	1	.097
Rejected.....	3	.292
Tough.....	43	4.179
Total.....	1,029	100.000

The grades of Mixed Grain are as follows:—

	Cars	Percentages
No. 1.....	15	15.152
No. 2.....	4	4.040
No. 3.....	50	50.505
Tough.....	24	24.243
Rejected.....	4	4.040
Sample.....	2	2.020
Total.....	99	100.000

The number of cars of grain inspected at the various points during the crop year August 1, 1937, to July 31, 1938.

	Cars	Percentages
Winnipeg.....	78,315	69.005
Calgary.....	8,812	7.764
Moose Jaw.....	4,412	3.888
Saskatoon.....	3,803	3.351
Medicine Hat.....	1,320	1.164
Lethbridge.....	810	.714
Vancouver.....	811	.714
Edmonton.....	15,208	13.400
Total.....	113,491	100.000

SUMMARY OF CARS REINSPECTED

	Winnipeg		Calgary	
Cars inspected.....	78,315		8,812	
Cars reinspected.....	20,809=26.57%		1,455=16.51%	
Reinspections	Cars	Per cent	Cars	Per cent
Left as graded.....	13,549	65.11	1,024	70.37
Grades raised.....	5,021	24.13	186	12.79
Grades lowered.....	258	1.24	11	.76
Dockage raised.....	326	1.57	49	3.37
Dockage lowered.....	1,655	7.95	185	12.71
Totals.....	20,809	100.00	1,455	100.00

	Edmonton		Saskatoon	
Cars inspected.....	15,208		3,803	
Cars reinspected.....	3,251=21.37%		381=10.02%	
Reinspections	Cars	Per cent	Cars	Per cent
Left as graded.....	2,802	86.19	330	86.62
Grades raised.....	83	2.55	41	10.76
Grades lowered.....	77	2.37	5	1.31
Dockage raised.....	131	4.03	.....	.....
Dockage lowered.....	158	4.86	5	1.31
Totals.....	3,251	100.00	381	100.00

	Moose Jaw		Medicine Hat	
Cars inspected.....	4,412		1,320	
Cars reinspected.....	436=9.88%		57=4.31%	
Reinspections	Cars	Per cent	Cars	Per cent
Left as graded.....	338	77.52	46	80.71
Grades raised.....	87	19.95	6	10.53
Grades lowered.....	9	2.07	2	3.50
Dockage raised.....	.....	.....	1	1.76
Dockage lowered.....	2	.46	2	3.50
Totals.....	436	100.00	57	100.00

	Lethbridge		Vancouver	
Cars inspected.....	810		811	
Cars reinspected.....	.....		.....

RECAPITULATION OF REINSPECTIONS

Total cars inspected.....	113,491
Total cars reinspected.....	26,389 = 23·25%

	Cars	Percentages	Percentage of total inspections
Left as graded.....	18,089	68·55	15·93
Grades raised.....	5,424	20·55	4·77
Grades lowered.....	362	1·37	·31
Dockage raised.....	507	1·92	·44
Dockage lowered.....	2,007	7·61	1·76
Total.....	26,389	100·00	23·21
Total—			
Left as graded.....	18,089		15·93
Changes.....	8,300		7·31

SUMMARY OF CARS APPEALED

	Winnipeg		Calgary		Edmonton		Total	
	Cars	P.c.	Cars	P.c.	Cars	P.c.	Cars	P.c.
Left as graded.....	1,185	84·76	182	78·79	30	93·75	1,397	84·10
Grades raised.....	210	15·02	44	19·05	2	6·25	256	15·42
Grades lowered.....	3	·22	3	1·30			6	·36
Dockage raised.....			1	·43			1	·06
Dockage lowered.....			1	·43			1	·06
Totals.....	1,398	100·00	231	100·00	32	100·00	1,661	100·00

PERCENTAGES OF APPEALS TO TOTAL INSPECTIONS

	Cars	Per cent
Total inspections.....	113,491	100·00
Total appeals.....	1,661	1·46
Total grades changed.....	264	·23

GRAIN INSPECTED AND SHIPPED BY VESSEL AUGUST 1, 1937, TO JULY 31, 1938

	Fort William and Port Arthur	Vancouver and New Westminster	Prince Rupert	Victoria	Churchill
	bush.	bush.	bush.	bush.	bush.
Wheat.....	85,298,248	10,035,460	910,940		603,981
Oats.....	5,115,555	1,298,075			
Barley.....	16,985,618	2,121,414			
Flax.....	344,741	123			
Rye.....	988,707				
Mixed Grain.....	547				
Barley Malt.....	19,415,240 (lbs.)				
Screenings.....	78,085,950 (lbs.)				

"OUTWARD CARS" CROP YEAR AUGUST 1, 1937 TO JULY 31, 1938

—	Winnipeg	Calgary	Moose Jaw	Saskatoon	Medicine Hat	Lethbridge	Prince Rupert	Vancouver	Edmonton	The Pas	Churchill	Total
Wheat.....	1,562	222	865	295	.....	852	.....	1,026	253	.....	.....	5,075
Oats.....	1,137	250	404	86	.....	.....	.....	157	1,285	.....	.....	3,319
Barley.....	1,351	754	33	.....	.....	.....	.....	46	187	.....	.....	2,371
Flax.....	30	4	5	.....	.....	.....	.....	.....	.....	.....	.....	39
Rye.....	58	1	.....	.....	.....	.....	.....	7	.....	.....	.....	66
Mixed grain.....	10	15	52	7	.....	.....	.....	4	30	.....	.....	118
Buckwheat.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Corn.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Screenings.....	220	200	144	205	.....	18	.....	149	14	.....	.....	950
Totals.....	4,368	1,446	1,503	593	.....	870	.....	1,389	1,769	.....	.....	11,938

EASTERN DIVISION

TOTAL INSPECTIONS AUGUST 1, 1937, TO JULY 31, 1938

<i>Cargoes—</i>			
Grain grown in Eastern Division—	Bushels	Bushels	Bushels
At Toronto.....	41,200		
At Montreal.....	29,898	71,098	
Grain grown in United States—			
At Montreal.....		19,359,000	19,430,098
<i>Car Loads—</i>			
Grain grown in Eastern Division—	Cars	Cars	Cars
At Toronto.....	1,372		
At Montreal.....	344	1,716	
Grain grown in United States—			
At Montreal.....		32	1,748

GRAIN CARGOES SAMPLED BUT NOT INSPECTED, AUGUST 1, 1937, TO JULY 31, 1938

Western Grain.....	Bushels	Bushels
Eastern Grain.....	119,609,405	
African Grain.....	609,111	
Argentine Grain.....	9,988,848	
United States Grain.....	8,003,071	
	93,544,511	
		231,754,946
At Montreal.....	165,748,230	
At Three Rivers.....	18,517,144	
At Sorel.....	30,660,484	
At Quebec.....	4,268,371	
At Halifax, N.S.....	144,866	
At Saint John, N.B.....	12,179,351	
At Toronto.....	230,500	
		231,754,946

CAR LOADS SAMPLED BUT NOT INSPECTED, AUGUST 1, 1937, TO JULY 31, 1938

Western Grain.....	Montreal	Toronto
Eastern Grain.....	129	47
United States Grain.....	170	6
Argentine Grain.....	569	
African Grain.....	171	
	144	
	1,183	53

GRADES OF CARGOES INSPECTED

Grain grown in Eastern Division:

Wheat—	Bushels
No. 2 Mixed Winter.....	41,200
Oats—	
No. 3 White.....	24,498
Buckwheat—	
Damp, No. 3.....	1,400

Grain grown in United States:

Corn—	
No. 2 Yellow.....	16,036,930
No. 3 Yellow.....	168,704
No. 2 Mixed.....	1,844,993
No. 3 Mixed.....	8,571
Wheat—	
No. 2 Hard Winter.....	208,000
No. 2 Red Winter.....	238,482
Rye—	
No. 2 Western.....	743,330
Barley—	
No. 2.....	9,990
No. 3.....	100,000

GRADES OF CAR LOADS INSPECTED

	Toronto	Montreal	Total
<i>Wheat—</i>			
No. 2 White Winter.....	53		53
No. 2 Red Winter.....	16		16
No. 3 Winter.....	125	4	129
No. 4 Winter.....	14	6	20
No. 1 Mixed Winter.....		1	1
No. 2 Mixed Winter.....	547	9	556
Rejected Winter.....	15	3	18
Tough.....	133	4	137
Damp.....	5		5
<i>Oats—</i>			
No. 1 White.....		1	1
No. 2 White.....	7		7
No. 3 White.....	8	33	41
No. 4 White.....	22	29	51
Rejected.....	36	38	74
Tough.....	5	7	12
<i>Barley—</i>			
Extra No. 3.....	31		31
No. 3.....	56	1	57
No. 4.....	46	21	67
Rejected.....	21	7	28
Tough.....	7	11	18
<i>Buckwheat—</i>			
Tough.....	5	39	44
Damp.....	60	114	174
Rejected.....	1		1
<i>Corn—</i>			
No. 1 Yellow.....	1		1
No. 2 Yellow.....	27		27
No. 3 Yellow.....	1		1
No. 2 Mixed.....	3		3
Tough.....	20		20
Damp.....	62	1	63
<i>Rye—</i>			
No. 2.....	23	11	34
No. 3.....	1		1
<i>Mixed Grain.....</i>	21	10	31
<i>Pea Beans—</i>			
No. 1.....		8	8
No. 2.....		8	8
No. 3.....		9	9
No. 4.....		1	1

APPENDIX No. 6

REPORT OF CHIEF WEIGHMASTER

J. RAYNER, Esquire,
Secretary, Board of Grain Commissioners,
Winnipeg, Manitoba.

DEAR SIR,—I have the honour to submit the following report covering the work of the Weighing Branch of the Board for the crop year 1937-1938.

During the crop year under review, this Branch has supplied weighing services at all Public Terminal, Semi-Public Terminal and Private Terminal Elevators licensed by the Board in the Western Division for the purpose of officially weighing all grain received into and shipped out of these elevators as required under Sections 91 and 123 of the Act.

Weighing services have also been supplied at a number of elevators operating under Mill Elevator licences.

Weighing services were supplied at six points in the Eastern Division on a fees basis at the following elevators: Goderich Elevator, Western Canada Flour Mills Elevator, Goderich; Canada Steamship Lines Elevator, Midland; Midland Simcoe Elevator, Midland; Aberdeen Elevator, Midland; Great Lakes Elevator, Owen Sound; Canadian Pacific Railway Elevator, Port McNicoll; Sarnia Elevator, Sarnia; Toronto Elevator, Toronto.

The equipment used for receiving, shipping and weighing grain in all licensed elevators, where weighing services have been supplied, has been maintained in good condition under the supervision of officers of this Branch.

Under my authority as Inspector of Weights and Measures of Terminal Elevator Scales, I carried out the annual inspection of the scales in the following elevators as required under the Weights and Measures Act, Regulation No. 50: The terminal elevators at Port Arthur and Fort William; Canadian Government Interior Elevators; those terminal elevators loading to tide water at the Pacific Coast; and the National Harbours Board elevator at Port Churchill.

Semi-annual inspection of the above scales was made to ensure the continued accuracy of the scales, and special tests were made of various scales during the crop year when considered necessary and upon request.

The scales in the above elevators have been maintained in good condition by an expert scale mechanic.

In the Eastern Division the scales in elevators licensed by the Board were inspected by Mr. P. J. Marples of Montreal.

The number of complaints received of shortages on the outturn of cars unloaded at terminal elevators during the crop year were smaller than in past years. All complaints received were thoroughly investigated and adjustments made or recommended where it was proven mishaps in handling had taken place, and in other cases reports prepared and submitted to the Board for decision.

Complaints were received on some cargoes loaded at the Head of the Lakes and unloaded at Eastern ports. The weighing and loading of these cargoes were investigated without finding any evidence whereby the loading elevators

could be held responsible for these shortages. Attached is statement showing the average reported shortage of pounds per thousand bushels on cargo shipments ex Fort William and Port Arthur.

Complaints received on the outturns of some export shipments were thoroughly investigated and reports submitted to the Board with recommendations.

As required under the Act, the stocks of all grain in store in Public Terminal and Semi-Public Terminal elevators and the four top grades in Private Terminal elevators licensed by the Board in the Western Division were weighed over at the end of the crop year. Approximately 10,468,178 bushels of all grains were weighed over and statements of the correct quantities of the various grades were prepared and forwarded to the Board to permit of the adjustment of outstanding warehouse receipts in Public and Semi-Public Terminal elevators, and the establishment of overages in terminal elevators in accordance with the provisions of section 138 of the Canada Grain Act.

Special weighups of stocks in terminal elevators were carried out by order of the Board and upon request.

As directed by the Board the stocks of grain in store in several Eastern elevators were weighed over and statements of the correct quantities of the various grades in store were prepared and forwarded to the Board.

Attached are statements giving particulars of the various phases of the work of the Branch.

Respectfully submitted,

S. M. CAPON,
Chief Weighmaster.

FORT WILLIAM, ONT.,
December 30, 1938.

Following are the quantities of the various grains which were weighed into and out of elevators at the following points in the Western Division during the crop year ending July 31, 1938.

FORT WILLIAM-PORT ARTHUR

RECEIPTS

Grain	Receipts from West	Transfer Receipts		Total
		Rail	Vessel	
	bush.	bush.	bush.	bush.
Wheat.....	87,423,581-10	2,729,835-50	2,260,750-00	92,414,167-00
Oats.....	7,467,502-30	726,630-16	9,145-10	8,203,278-22
Barley.....	17,302,966-36	359,186-24		17,662,153-12
Flaxseed.....	224,841-55	102,454-22		327,296-21
Rye.....	1,357,850-12	793,379-26	153,561-34	2,304,791-16
Canadian Corn.....	42,709-26	1,495-00		44,204-26
Argentine Corn.....		1,500-00		1,500-00
South African Corn (<i>ex vessel</i>).....	39,810-10	19,721-34		59,531-44
U.S.A. Corn (<i>ex vessel</i>).....	10,000-00	9,993-42		19,993-42
U.S.A. Wheat.....	2,870-50			2,870-50
U.S.A. Oats (<i>ex vessel</i>).....	50,718-28	46,839-14		97,558-08
	lbs.	lbs.	lbs.	lbs.
Mixed Grain.....	4,936,450	1,603,950	33,000	6,573,400
All Screenings.....	15,339,170	8,799,940	617,350	24,756,460
Sample Barley Malt.....	19,415,240			19,415,240

FORT WILLIAM-PORT ARTHUR

SHIPMENTS

Grain	Vessel	Rail	Transfer Shipments		Total
			Vessel	Rail	
	bush.	bush.	bush.	bush.	bush.
Wheat.....	83,653,064-20	2,377,696-20	1,924,013-40	2,736,329-50	89,691,104-10
Oats.....	5,015,322-28	2,487,422-06	9,143-28	724,885-23	8,236,774-17
Barley.....	16,958,562-27	265,066-18		359,845-22	17,583,474-19
Flaxseed.....	344,773-40	30,115-35		102,555-22	477,444-41
Rye.....	778,984-52	62,015-22	153,722-24	794,424-04	1,789,146-46
Canadian Corn.....		42,402-48		1,495-50	43,898-42
Argentine Corn.....		11,513-32		1,500-00	13,013-32
South African Corn.....		39,793-02		19,738-42	59,531-44
U.S.A. Corn.....		4,195-30		10,000-00	14,195-30
U.S.A. Wheat.....		1,870-50			1,870-50
U.S.A. Oats.....		50,616-06		46,903-18	97,519-24
	lbs.	lbs.	lbs.	lbs.	lbs.
Mixed Grain.....	37,730	1,362,270	32,820	1,605,820	3,038,640
Mixed Feed Oats					
Groats.....		707,000			707,000
All Screenings.....	77,362,160	28,783,880	617,950	9,595,120	116,359,110
Sample Barley Malt	19,415,240				19,415,240

GROSS HANDLINGS OF ALL CANADIAN GRAINS DURING THE CROP YEAR
1937-38 AT THE FOLLOWING POINTS:

RECEIPTS

Point	Wheat	Oats	Barley	Flax	Rye	Miscellaneous
	bush.	bush.	bush.	bush.	bush.	pounds
Vancouver and New Westminster.....	8,933,216-40	2,092,191-00	2,460,682-19	2,153-34	55,422-08	7,037,990
Prince Rupert.....						
Churchill.....						
Calgary.....	31,688-40	255,466-16	371,712-04	1,871-04		121,120
Edmonton.....	19,726-50	705,402-32	101,188-16			43,290
Lethbridge.....	1,402,523-20					
Moose Jaw.....	931,347-10	613,348-28	77,685-40			
North Transcona.....	323,104-40	552-28	34,944-18		14,603-22	39,120

SHIPMENTS

Point	Wheat	Oats	Barley	Flax	Rye	Miscellaneous
	bush.	bush.	bush.	bush.	bush.	pounds
Vancouver and New Westminster.....	12,055,746-20	2,176,490-00	2,317,554-31	2,476-18	44,716-48	13,050,390
Prince Rupert.....	910,940-00	1,063-18				2,500
Churchill.....	603,981-50					
Calgary.....	29,066-50	293,385-10	371,073-06	1,673-36		292,670
Edmonton.....	46,233-40	702,650-30	103,448-26			131,450
Lethbridge.....	1,375,287-40	861-26				1,211,070
Moose Jaw.....	912,896-00	543,905-16	47,609-40			4,780,200
North Transcona.....	313,494-50	12,000-00	38,291-12		15,517-38	639,590

GROSS HANDLINGS OF ALL FOREIGN GRAINS DURING THE CROP YEAR
1937-38 AT THE FOLLOWING POINTS:

RECEIPTS

Point	U.S.A. Wheat	U.S.A. Oats	U.S.A. Corn	South African Corn	Argentine Corn	Argentine Flax
	bush.	bush.	bush.	bush.	bush.	bush.
Vancouver and New Westminster.....	274,725-20	5,206-06	71,535-40	1,689,794-06	332,951-29	19,923-12
Lethbridge.....	3,203-40					

SHIPMENTS

Vancouver and New Westminster.....	264,339-20	5,206-06	71,535-40	1,350,983-24	391,594-19	19,923-12
Lethbridge.....	3,170-40					

TOTAL CARS WEIGHED AT INTERIOR POINTS OTHER THAN GOVERNMENT
ELEVATORS, CROP YEAR 1937-1938

Kenora.....	479
Keewatin.....	4,012
Winnipeg.....	12,035
Portage La Prairie.....	475
Saskatoon.....	4,389
Moose Jaw.....	4,609
Calgary.....	3,979
Edmonton.....	2,936
Medicine Hat.....	1,915
Total.....	34,829

REPORT OF CARS ARRIVING AT DESTINATION, LEAKING, NOT PROTECTED BY
SEALS, AND WITH DEFECTIVE SEALS
CROP YEAR 1937-1938

CANADIAN PACIFIC RAILWAY

	Leaking Cars	Missing Seals	Defective Seals
Lakehead elevators.....	3,301	298	38
Elevators, excluding lakehead.....	758	210	47
Total.....	4,059	508	85

CANADIAN NATIONAL RAILWAY

	Leaking Cars	Missing Seals	Defective Seals
Lakehead elevators.....	3,585	182	11
Elevators, excluding lakehead.....	255	59	11
Total.....	3,840	241	22
Total both roads.....	7,899	749	111

CAR INSPECTION AT WINNIPEG YARDS

	Cars inspected	Leaking cars	Missing and defective seals
C.P.R. Yards.....	46,351	1,634	360
C.N.R. Yards.....	38,864	284	410
Total.....	85,215	1,918	770

REPORT OF THE AVERAGE REPORTED SHORTAGES OF POUNDS PER 1,000 BUSHELS
ON THE VARIOUS GRAINS LOADED AT FORT WILLIAM AND PORT ARTHUR
AND UNLOADED CANADIAN AND AMERICAN PORTS

CANADIAN PORTS

Grain	Bushels	Pounds per 1,000 bushels
Wheat.....	71,000,570-04	Short 33·12
Oats.....	5,106,412-17	Short 30·72
Barley.....	16,281,886-25	Short 37·83
Flaxseed.....	344,741-08	Short 77·14
Rye.....	814,984-52	Short 31·16
Barley malt.....	19,415,240 lbs.	Short 8 lbs per 1,000 lbs.
Screenings.....	13,284-0700 tons	Short 4·25 lbs. per ton

AMERICAN PORTS

Grain	Bushels	Pounds per 1,000 bushels
Wheat.....	12,552,416-30	Short 25·8
Barley.....	703,731-32	Short 49·99
Rye.....	20,000-00	Short 70·
Screenings.....	25,450-0390 tons	Short 4·53 lbs. per ton

GRAND TOTALS—GRAIN SHIPPED

Wheat.....	83,667,361-44	Short 31·97
Oats.....	5,106,412-17	Short 30·72
Barley.....	16,985,618-09	Short 38·34
Flaxseed.....	344,741-08	Short 77·14
Rye.....	834,984-52	Short 32·09
Barley malt.....	19,415,240 lbs.	Short 8 lbs per 1,000 lbs.
Screenings.....	38,734-1090 tons	Short 4·44 lbs. per ton

APPENDIX No. 7

REPORT OF GENERAL MANAGER, CANADIAN GOVERNMENT
ELEVATORS

FORT WILLIAM, ONT., December 7, 1938.

THE BOARD OF GRAIN COMMISSIONERS,
Winnipeg, Man.

SIRS,—I have the honour to submit the following report of the Canadian Government Government Elevators for the year 1938:—

ELEVATORS OPERATED

The three elevators in the Province of Alberta, Calgary, Edmonton and Lethbridge, were in operation during the entire year. The Moose Jaw elevator, operation of which had been temporarily suspended as from December 1, 1936, was re-opened under private elevator licence in August, 1937, for the purpose of handling grain for account of the Canadian Wheat Board exclusively, and remained in operation until July, 1938, when operations were again temporarily discontinued.

In September, 1938, both Moose Jaw and Saskatoon elevators were re-opened under public terminal licences, the latter plant having been closed since December, 1936.

ELEVATORS LEASED

Port Arthur.—The three-year lease entered into with McCabe Bros., Grain Company, Limited, on July 31, 1936, was cancelled by mutual arrangement one year prior to the expiry date and a new lease for a period of six years ending July 31, 1944, was executed. The new lease provides for increased rental in consideration of the installation of additional cleaning equipment.

Prince Rupert.—The one-year lease under which this elevator was operated by the Alberta Pool Elevators Limited expired July 31, 1938, and was not renewed. Efforts were made to interest other parties in the operation of this elevator, but so far these have not been successful.

CHARGES

The tariff of charges was maintained on the same basis as that in effect the previous year.

GRAIN HANDLED

Notwithstanding generally unfavourable crop conditions the Alberta houses showed a very gratifying increase in volume of business compared with the previous season, as will be seen by the following comparative statement:—

Elevator	1936-37	1937-38	Increase	Decrease
Moose Jaw.....	5,548	*1,603,040	1,597,492	
Saskatoon.....	18,623	Not operating		18,623
Calgary.....	404,398	662,691	258,293	
Edmonton.....	249,789	825,988	576,199	
Lethbridge.....	34,216	1,405,323	1,371,107	
	712,574	4,497,042	3,784,468	

* Handled for account of Canadian Wheat Board.

A further substantial increase has already been made in the volume handled of the 1938 crop.

All buildings and equipment have been maintained in good condition, major repairs and replacements including the following items:—

BUILDINGS

Port Arthur.—Minor cracks in cupola walls were repaired and several of the brick panels of the workhouse re-pointed and painted.

A new connection was made with the city water main replacing the original one damaged by corrosion.

Calgary.—Necessary repairs were made to bins in the storage annex and the entire annex structure water-proofed and painted.

Saskatoon.—A new steel smokestack was erected on the drier boiler house.

EQUIPMENT

Port Arthur.—Cleaning capacity of the plant was increased by the installation of six No. 16 Superior separators.

Two leg belts and one conveyor belt replaced.

Forty-six new discs installed in Carter Discs.

Three chain drives replaced completely and three chain drives repaired. Substantial repairs and replacements were made to spouting, cleaning machines and car hauls.

Edmonton.—New lightning arresters were installed for protection of sub-station equipment.

Calgary.—Repairs and replacements of passenger elevator equipment.

Moose Jaw.—Repairs to passenger elevator equipment.

TRACKAGE

Maintenance of trackage at the several elevators involved the following replacements:—

Port Arthur— 600 creosoted track ties.

1,200 tie plates.

Saskatoon— 400 track ties.

Calgary— 350 track ties, 76 switch ties.

Edmonton— 500 track ties.

Lethbridge— 1,000 track ties, 60 switch ties.

STAFF

The re-opening of the Moose Jaw and Saskatoon elevators necessitated the re-employment of former employees, who were reinstated on a temporary basis. In three cases where former employees were not available the positions were filled by new temporary appointments.

One permanent employee retired during the year, but no appointment was made to fill the vacancy.

The staffs at all points have been maintained at the minimum of requirements.

RESULTS OF OPERATION

The increased volume of grain handled was reflected in the improvement in the financial results to the extent of \$81,000.00 as compared with the previous year. The net operating loss was \$40,180.36 as against \$121,547.88 in 1937. Whilst no revenue, as such, was derived from the operation of the Moose Jaw elevator, the operating expenses amounting to \$31,000.00 were refunded by the Canadian Wheat Board. Revenue for the year was \$35,000.00 higher than in the previous season and operating costs reduced by approximately \$10,000.00.

Continuing the practice followed in recent years no provision was made for depreciation of plants or equipment, but these were maintained in good condition as an operating cost.

Respectfully submitted,

R. HETHERINGTON,

General Manager.

APPENDIX No. 8

REPORT OF GRAIN RESEARCH LABORATORY

December 20, 1938.

MR. J. RAYNER, Secretary,
Board of Grain Commissioners,
Winnipeg.

DEAR SIR,—I have the honour to submit the following statement covering the activities of the Grain Research Laboratory during the year 1938:—

PROTEIN STUDIES:

- (a) Survey of the protein content of the 1938 Western Canadian hard red spring wheat crop.
- (b) Survey of the protein content of the 1938 Western Canadian amber durum wheat crop.
- (c) Survey of the protein content of the 1938 Western Canadian barley crop.
- (d) Survey of the protein content of the 1938 Western Canadian rye crop.
- (e) Protein content of Average samples of hard red spring wheat, amber durum wheat, barley and rye obtained from different inspection offices during the 1937-38 crop year.
- (f) Protein content of unloads of hard red spring wheat at port terminal elevators, 1937-38 crop year.
- (g) Protein content of hard red spring wheat cargoes shipped during the 1937-38 crop year.
- (h) Protein content of Western Canadian amber durum wheat cargoes shipped during the 1937-38 crop year.
- (i) Protein content of Western Canadian barley cargoes shipped during the 1937-38 crop year.

MILLING AND BAKING STUDIES:

- (a) The milling, baking and other quality characteristics of the 1938 Western Canadian wheat crop.
- (b) The milling and baking quality of Western Canadian hard red spring wheat cargoes, and Averages from different inspection offices, 1937-38 crop year.
 - 1. Individual cargoes ex Vancouver and Fort William.
 - 2. Compositated cargo shipments ex Pacific, Lakehead and Atlantic ports.
 - 3. Average samples ex various inspection offices.
- (c) The quality of Coronation wheat compared with that of other varieties grown under similar environmental conditions.
- (d) Overseas tests of Thatcher and Coronation wheats.
- (e) The quality characteristics of Thatcher wheat, 1938 crop.
- (f) The quality of Red Club or Little Club wheat, 1938 crop.
- (g) The quality characteristics of "Brassy" coloured wheat.
- (h) The relation between protein content and strength of gluten-enriched flours.

DURUM WHEAT STUDIES:

- (a) Quality characteristics of the 1938 Western Canadian amber durum wheat crop.
- (b) Relative macaroni-making quality of a number of durum wheat varieties grown in 1937.
- (c) A cooking test for alimentary pastes.

STUDIES OF OLEAGINOUS SEEDS:

- (a) *Flaxseed*:
 - 1. Survey of the oil content, iodine value and protein content of Western Canadian flaxseed, 1938 crop.
 - 2. Oil content and iodine value of flaxseed varieties.
 - (i) Central Experimental Farm series.
 - (ii) University of Alberta series.
 - 3. Causes of the low germination of certain flax varieties grown in 1937.
 - 4. Effect of various fertilizers on flaxseed quality, 1936 and 1937 crops.
- (b) *Miscellaneous oil seeds*:
 - 1. Sunflower (*Helianthus annuus*).
 - 2. Safflower (*Carthamus tinctorius*).
 - 3. *Peritome serrulata*.

MISCELLANEOUS INVESTIGATIONS:

- (a) Proximate feeding stuff analyses of Western Canadian wheat, oats, barley and rye, 1938 crop.
- (b) The quantitative determination of bromine in bromated flours.
- (c) The utility of the Hengar technique for the determination of nitrogen by the Kjeldahl procedure.
- (d) A rapid method for the determination of wheat and flour pigments.
- (e) A combined Photo-electric Colorimeter and Color Analyzer for cereal work.
- (f) The value of the Brabender Farinograph for predicting the baking strength of Western Canadian wheats.

SUPERVISION OF MOISTURE TESTERS.

CO-OPERATIVE STUDIES AND SERVICES.

REPORTS AND PUBLICATIONS:

- (a) Reports to the Board of Grain Commissioners.
- (b) Scientific papers released for publication.
- (c) Technical and miscellaneous reports.

The full report, summarizing the various projects listed above, is submitted herewith and it is recommended that, in accordance with the usual practice, it be published separately.

Yours respectfully,

T. R. AITKEN,

Assistant Chief Chemist.

APPENDIX No. 9

STATEMENT OF REVENUE AND EXPENDITURE FOR CROP YEAR,
SEPTEMBER 1, 1937, TO AUGUST 31, 1938

(a) WINNIPEG—

Revenue—

Licence fees.....	\$	33,033 00	
Registration fees.....	\$	5,231 52	
Cancellation fees.....		5,023 50	
			10,255 02
Inspection fees.....		93,279 00	
Samples sold.....		4,375 17	
Cargo certificates split.....		95 50	
Refund express.....		1,154 00	
Sundries.....		136 00	
			99,039 67
Appeal fees.....			4,302 00
Weighing fees.....		14,671 50	
Condition reports.....		201 25	
			14,872 75
			\$ 161,502 44

Expenditure—

Board and Executive Office—

Salaries—

Commission and Secretary.....	\$	36,335 00
Secretary's office.....		9,589 92
Licensing and bonding.....		11,153 71

Rents—

Executive office.....		3,672 00
Licensing and bonding.....		1,200 00

Travelling expenses—

Grain Commission.....		3,055 34
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General expenses—

Grain Commission.....		4,529 31
Licensing and bonding.....		565 87

Printing and stationery—

Grain Commission.....		1,192 73
Licensing and bonding.....		1,548 31

Assistant Commissioner's Office—

Salaries.....		8,075 00
Rent.....		618 00
Travelling.....		755 79
General expenses.....		172 14
Printing and stationery.....		13 64

82,476 76

Grain Research Laboratory—

Salaries.....		30,967 10
Rent.....		8,898 00
Travelling expenses.....		533 80
General expenses.....		5,692 74
Printing and stationery.....		3,488 40

49,580 04

Registration Branch—

Salaries.....		14,390 00
Rent.....		1,572 00
Travelling expenses.....		111 30
General expenses.....		287 98
Printing and stationery.....		3 60

16,364 88

Accounts—

Salaries.....		4,205 00
Printing and stationery.....		382 19
General expenses.....		124 09

4,711 28

Inspection Branch—

Salaries.....		203,291 60
Rent.....		18,002 00
Travelling expenses.....		7,099 87
General expenses.....		12,114 64
Printing and stationery.....		4,081 92

244,590 03

Weighing Branch—

Salaries.....		35,560 00
Rent.....		1,590 00
Travelling expenses.....		121 75
General expenses.....		385 76
Printing and stationery.....		470 33

38,127 84

STATEMENT OF REVENUE AND EXPENDITURE FOR CROP YEAR
ENDED AUGUST 31, 1938—Continued

(a) WINNIPEG—Con.

Expenditure—Con.

Grain Appeal Tribunal—

Salaries.....	\$ 4,380 00	
Rent.....	420 00	
General expenses.....	2,385 25	
	<u> </u>	\$ 7,185 25

Grain Standards Committee—

Salaries.....		
Travelling expenses.....	1,461 06	
General expenses.....	3,367 86	
	<u> </u>	4,828 92
		<u> </u> \$ 447,865 00

(b) CHURCHILL—

Revenue—

Inspection fees.....	
Weighing fees.....	

Expenditure—

Inspection Branch—

Salaries.....		
Travelling expenses.....	18 25	
General expenses.....		
	<u> </u>	18 25

Weighing Branch—

Salaries.....		
Travelling expenses.....	242 85	
General expenses.....		
	<u> </u>	242 85
		261 10

(c) KEEWATIN—

Revenue—

Inspection fees.....	2,586 00	
Weighing fees.....	4,956 00	
	<u> </u>	7,542 00

Expenditure—

Salaries, inspection.....	2,586 00	
	<u> </u>	2,586 00
Salaries, weighing.....	4,920 00	
General expenses.....	36 00	
	<u> </u>	4,956 00
		7,542 00

(d) KENORA—

Revenue—Weighing fees.....		2,460 00
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Expenditure—

Salaries, weighing.....	2,460 00	
General expenses.....	9 00	
	<u> </u>	2,469 00
		2,469 00

(e) PORTAGE LA PRAIRIE—

Revenue—

Weighing fees.....	1,230 00	
	<u> </u>	1,230 00

Expenditure—

Salaries, weighing.....	1,230 00	
	<u> </u>	1,230 00

(f) SASKATOON—

Revenue—

Inspection fees.....	6,505 00	
Samples sold.....	304 60	
Sundries.....	2 50	
	<u> </u>	6,812 10
Weighing fees.....	5,503 00	
	<u> </u>	12,315 10

Expenditure—

Assistant Commissioners Office—

Salaries.....	9,120 00	
Travelling expenses.....	710 88	
General expenses.....	92 06	
Printing and stationery.....	28 20	
	<u> </u>	9,951 14

STATEMENT OF REVENUE AND EXPENDITURE FOR CROP YEAR
ENDED AUGUST 31, 1938—Continued

(f) SASKATOON—Con.

Expenditure—Con.

Inspection Branch—

Salaries.....	\$ 10,645 40	
Rent.....	911 67	
Travelling expenses.....		
General expenses.....	251 23	
Printing and stationery.....	121 03	
	<u>\$</u>	11,929 33

Weighing Branch—

Salaries.....	8,386 25	
Travelling expenses.....		
General expenses.....	2 46	
	<u>\$</u>	8,388 71

30,269 18

(g) MOOSE JAW—

Revenue—

Inspection fees.....	5,681 70	
Samples sold.....	338 17	
Sundries.....	1 50	
	<u>\$</u>	6,021 37
Weighing fees.....		6,691 70

12,713 07

Expenditure—

Inspection Branch—

Salaries.....	10,821 50	
Rent.....	900 00	
General expenses.....	551 50	
Printing and stationery.....	222 47	
	<u>\$</u>	12,495 47

Weighing Branch—

Salaries.....	7,641 97	
General expenses.....	18 00	
Printing and stationery.....	4 79	
	<u>\$</u>	7,664 76

20,160 23

(h) MEDICINE HAT—

Revenue—

Inspection fees.....	5,317 89	
Samples sold.....	162 62	
Sundries.....	6 50	
	<u>\$</u>	5,487 01
Weighing fees.....		4,920 00

10,407 01

Expenditure—

Inspection Branch—

Salaries.....	5,090 00	
Rent.....	240 00	
Printing and stationery.....	0 72	
General expenses.....	156 29	
	<u>\$</u>	5,487 01

Weighing Branch—

Salaries.....	4,920 00	
	<u>\$</u>	4,920 00

10,407 01

(i) LETHBRIDGE—

Revenue—

Inspection fees.....	1,694 40	
Samples sold.....	122 39	
	<u>\$</u>	1,816 79
Weighing fees.....		1,603 50

3,420 29

Expenditure—

Inspection Branch—

Salaries.....	4,249 16	
Travelling expenses.....	201 03	
General expenses.....	44 27	
	<u>\$</u>	4,494 46

Weighing Branch—

Salaries.....	3,890 00	
Travelling expenses.....	39 63	
General expenses.....	15 00	
	<u>\$</u>	3,944 63

8,439 09

STATEMENT OF REVENUE AND EXPENDITURE FOR CROP YEAR
ENDED AUGUST 31, 1938—Continued

(j) CALGARY—

Revenue—

Inspection fees.....	\$ 11,046 10		
Samples sold.....	532 25		
Refund express.....	68 00		
Sundries.....	44 50		
	<u> </u>	\$ 11,690 85	
Weighing fees.....		6,881 50	
Appeal fees.....		708 00	
		<u> </u>	\$ 19,280 35

Expenditure—

Assistant Commissioner's Office—

Salaries.....	8,880 00		
Rent.....	902 00		
Travelling expenses.....	522 97		
General expenses.....	298 03		
Printing and stationery.....	21 91		
	<u> </u>	10,624 91	

Inspection Branch—

Salaries.....	31,949 62		
Rent.....	3,251 00		
Travelling expenses.....	154 60		
General expenses.....	1,920 99		
Printing and stationery.....	733 49		
	<u> </u>	38,009 70	

Weighing Branch—

Salaries.....	16,830 00		
Rent.....	340 21		
Travelling expenses.....	43 00		
General expenses.....	182 32		
Printing and stationery.....	23 70		
	<u> </u>	17,419 23	

Grain Appeal Tribunal—

Salaries.....	4,599 96		
Rent.....	455 00		
Travelling expenses.....			
General expenses.....	556 00		
Printing and stationery.....			
	<u> </u>	5,610 96	

71,664 80

(k) PRINCE RUPERT—

Revenue—

Inspection fees.....	912 20		
Samples sold.....		912 20	
	<u> </u>	912 20	
Weighing fees.....			1,824 40

Expenditure—

Inspection Branch—

Salaries.....	28 61		
Travelling expenses.....	251 60		
	<u> </u>	280 21	

Weighing Branch—

Salaries.....	1,377 50		
Travelling expenses.....	248 75		
General expenses.....	5 00		
	<u> </u>	1,631 25	

1,911 46

(l) EDMONTON—

Revenue—

Inspection fees.....	17,332 40		
Samples sold.....	580 75		
Refund express.....	14 00		
Sundries.....	45 00		
	<u> </u>	17,972 15	
Weighing fees.....		5,126 70	
Appeal fees.....		96 00	
		<u> </u>	23,194 85

Expenditure—

Inspection Branch—

Salaries.....	37,995 95		
Rent.....	3,774 00		
Travelling expenses.....	68 60		
General expenses.....	1,578 22		
Printing and stationery.....	536 91		
	<u> </u>	43,953 68	

STATEMENT OF REVENUE AND EXPENDITURE FOR CROP YEAR
ENDED AUGUST 31, 1938—Continued

(l) EDMONTON—Con.

Expenditure—Con.

Weighing Branch—

Salaries.....	\$ 9,600 00	
Rent.....		
Travelling expenses.....		
General expenses.....	112 50	
Printing and stationery.....	35 40	
	<hr/>	\$ 9,747 90

Grain Appeal Tribunal—

Salaries.....	4,599 96	
Rent.....	467 50	
General expenses.....	146 40	
Printing and stationery.....	24 05	
	<hr/>	5,237 91
		<hr/>

\$ 58,939 49

(m) VANCOUVER—

Revenue—

Inspection fees.....	15,548 30	
Samples sold.....	815 08	
Sampling.....	12 00	
Sundries.....	2 00	
	<hr/>	16,377 38
Weighing fees.....		25,251 90
Registration fees.....	473 48	
Cancellation fees.....	627 64	
	<hr/>	1,101 12
		<hr/>

42,730 40

Expenditure—

Inspection Branch—

Salaries.....	61,710 00	
Rent.....	4,279 00	
Travelling expenses.....		
General expenses.....	1,630 85	
Printing and stationery.....	744 15	
	<hr/>	68,364 00

Weighing Branch—

Salaries.....	65,991 43	
Rent.....	1,659 00	
Travelling expenses.....		
General expenses.....	539 87	
Printing and stationery.....	105 38	
	<hr/>	68,295 68

Registration Branch—

Salaries.....	5,630 00	
Rent.....	1,092 00	
General expenses.....	187 52	
Printing and stationery.....	6 30	
	<hr/>	6,915 82
		<hr/>

143,575 50

(n) FORT WILLIAM—

Revenue—

Inspection fees.....	123,257 90	
Samples sold.....	4,522 23	
Splits.....	1 80	
	<hr/>	127,781 93
Weighing fees.....		211,489 60
		<hr/>

339,271 53

Expenditure—

Inspection Branch—

Salaries.....	294,949 40	
Rent.....	12,176 88	
Travelling expenses.....	88 70	
General expenses.....	6,218 55	
Printing and stationery.....	3,004 98	
	<hr/>	316,438 51

Weighing Branch—

Salaries.....	231,314 39	
Rent.....	2,929 68	
Travelling expenses.....	2,147 06	
General expenses.....	1,911 69	
Printing and stationery.....	1,405 57	
	<hr/>	239,708 39

STATEMENT OF REVENUE AND EXPENDITURE FOR CROP YEAR
ENDING AUGUST 31, 1938—*Concluded*(n) FORT WILLIAM—*Con.**Expenditure—Con.*

Assistant Commissioner's Office—

Salaries.....	\$ 8,880 00	
Rent.....	540 00	
Travelling expenses.....	569 35	
General expenses.....	197 58	
Printing and stationery.....	0 51	
	<u>\$</u>	10,187 44

Statistical Branch—

Salaries.....	37,851 18	
Rent.....	3,285 00	
Travelling expenses.....	164 65	
General expenses.....	2,674 53	
Printing and stationery.....	1,638 95	
	<u></u>	45,614 31
		<u>\$</u> 611,948 65

(o) TORONTO—

Revenue—

Inspection fees.....	1,631 50	
Sampling fees.....	240 90	
Samples sold.....	37 50	
Splits.....	4 90	
	<u></u>	1,914 80

Expenditure—

Inspection Branch—

Salaries.....	4,920 00	
Rent.....	540 00	
Travelling expenses.....		
General expenses.....	326 29	
Printing and stationery.....	23 43	
	<u></u>	5,809 72
		<u>\$</u> 5,809 72

(p) MONTREAL—

Revenue—

Inspection fees.....	25,640 35	
Sampling fees.....	17,332 18	
Samples sold.....	30 00	
Splits.....	807 30	
	<u></u>	43,809 83
Registration fees.....	3,229 33	
Cancellation fees.....	3,229 54	
	<u></u>	6,458 87
Weighing fees.....		29 00
		<u>\$</u> 50,297 70

Expenditure—

Inspection Branch—

Salaries.....	29,932 95	
Rent.....	2,101 71	
Travelling expenses.....	1,781 10	
General expenses.....	919 30	
Printing and stationery.....	432 26	
	<u></u>	35,167 32

Registration Branch—

Salaries.....	3,632 00	
Rent.....	420 00	
Travelling expenses.....	174 86	
Printing and stationery.....	42 46	
General expenses.....	202 70	
	<u></u>	4,472 02
		<u>\$</u> 39,639 34

(q) REGINA—

Revenue—

Inspection fees.....		6,887 33
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Expenditure—

Inspection Branch—

Salaries.....	4,995 30	
Rent.....	20 00	
Travelling expenses.....	1,758 35	
General expenses.....	113 68	
	<u></u>	6,887 33
		<u>\$</u> 6,887 33

STATEMENT SHOWING REVENUE AND EXPENDITURE BY POINTS AND BRANCHES
REVENUE

Points	Inspection	Weighing	Appeal Boards	Regis- tration	Commis- sion	Statistical	Accounting	Research Laboratory	Grain Standards	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Winnipeg.....	99,039 67	14,872 75	4,302 00	10,255 02	33,033 00					161,502 44
Keewatin.....	2,586 00	4,956 00								7,542 00
Kenora.....		2,460 00								2,460 00
Portage La Prairie.....		1,230 00								1,230 00
Saskatoon.....	6,812 10	5,503 00								12,315 10
Moose Jaw.....	6,021 37	6,691 70								12,713 07
Medicine Hat.....	5,487 01	4,920 00								10,407 01
Lethbridge.....	1,816 79	1,603 50								3,420 29
Calgary.....	11,600 85	6,881 50	708 00							19,280 35
Prince Rupert.....	912 20	912 20								1,824 40
Edmonton.....	17,972 15	5,126 70	96 00							23,194 85
Vancouver.....	16,377 38	25,251 90		1,101 12						42,730 40
Fort William.....	127,781 93	211 489 60								339,271 53
Toronto.....	1,914 80									1,914 80
Montreal.....	43,800 83	29 00		6,458 87						50,297 70
Regina.....	6,887 33									6,887 33
	349,109 41	291,927 85	5,106 00	17,815 01	33,033 00					696,991 27

STATEMENT SHOWING REVENUE AND EXPENDITURE BY POINTS AND BRANCHES—Concluded

EXPENDITURE

Points	Inspection	Weighing	Appeal Boards	Registration	Commission	Statistical	Accounting	Research Laboratory	Grain Standards	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Winnipeg.....	244,590 03	38,127 84	7,185 25	16,364 88	82,476 76	.....	4,711 28	49,580 04	4,828 92	447,865 00
Churchill.....	18 25	242 85	.....	.....	.....	.....	.....	.....	.....	261 10
Keeleatin.....	2,586 00	4,956 00	.....	.....	.....	.....	.....	.....	.....	7,542 00
Kenora.....	.....	2,469 00	.....	.....	.....	.....	.....	.....	.....	2,469 00
Portage La Prairie.....	1,230 00	1,230 00	.....	.....	.....	.....	.....	.....	.....	1,230 00
Saskatoon.....	8,388 71	8,388 71	.....	.....	9,951 14	.....	.....	.....	.....	30,269 18
Moose Jaw.....	12,495 47	7,664 76	.....	.....	.....	.....	.....	.....	.....	20,160 23
Regina.....	6,887 33	.....	.....	.....	.....	.....	.....	.....	.....	6,887 33
Medicine Hat.....	5,487 01	4,920 00	.....	.....	.....	.....	.....	.....	.....	10,407 01
Lethbridge.....	4,494 46	3,944 63	.....	.....	.....	.....	.....	.....	.....	8,439 09
Calgary.....	38,009 70	17,419 23	5,610 96	.....	10,624 91	.....	.....	.....	.....	71,664 80
Prince Rupert.....	280 21	1,631 25	.....	.....	.....	.....	.....	.....	.....	1,911 46
Edmonton.....	43,953 68	9,747 90	5,237 91	.....	.....	.....	.....	.....	.....	58,939 49
Vancouver.....	68,364 00	68,295 68	.....	6,915 82	.....	.....	.....	.....	.....	143,575 50
Fort William.....	316,438 51	239,708 39	.....	.....	10,187 44	45,614 31	.....	.....	.....	611,948 65
Toronto.....	5,809 72	.....	.....	.....	.....	.....	.....	.....	.....	5,809 72
Montreal.....	35,167 32	.....	.....	4,472 02	.....	.....	.....	.....	.....	39,639 34
	796,511 02	408,746 24	18,034 12	27,752 72	113,240 25	45,614 31	4,711 28	49,580 04	4,828 92	1,469,018 90

Total Expenditure.....\$ 1,469,018 90

Total Revenue.....696,991 27

Net Deficit.....\$ 772,027 63

SUMMARY OF OPERATIONS BY BRANCHES

REVENUE

	Inspection		Weighing		Appeal Boards		Regis- tration		Commis- sion		Statistical		Accounting		Research Laboratory		Grain Standards		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Fees.....	317,320	07	291,726	60	5,106	00	17,815	01	33,033	00	.....	.....	.....	.....	.....	.....	.....	.....	665,000	68
Sampling.....	17,585	08	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17,585	08
Express charges.....	1,236	00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,236	00
Cargo splits.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	909	50
Samples sold.....	11,820	76	201	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11,820	76
Condition reports.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	201	25
Sundries.....	238	00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	238	00
	349,109	41	291,927	85	5,106	00	17,815	01	33,033	00	696,991	27

EXPENDITURE

Salaries.....	703,165	49	394,121	54	13,579	92	23,652	00	92,093	63	37,851	18	4,205	00	30,967	10	.....	.....	1,299,575	86
Rents.....	46,196	26	6,518	89	1,342	50	3,084	00	6,932	00	3,285	00	.....	.....	8,898	00	.....	.....	76,256	65
Expenses.....	37,247	91	6,060	64	3,087	65	964	36	11,469	32	2,839	18	124	09	6,226	54	4,828	92	72,848	61
Printing and stationery.....	9,901	36	2,045	17	24	05	52	36	2,805	30	1,638	95	382	19	3,488	40	.....	.....	20,337	78
	796,511	02	408,746	24	18,034	12	27,752	72	113,240	25	45,614	31	4,711	28	49,580	04	4,828	92	1,469,018	90

Net Deficit.....\$ 772,027 63

APPENDIX No. 10

REGULATIONS OF THE BOARD

During the year 1938 minor amendments were made to Regulations Nos. 38, 39, 40, 41 and 42, whilst Regulations Nos. 1, 8 and 22 were completely revised and reissued.

The Regulations of the Board in effect at December 31, 1938, are as follows:—

- No. 1. Registration and Cancellation of Terminal Warehouse Receipts.
4. Inspection of Samples taken other than at an Inspection Point.
8. Inspection and Grading of Grain after Treatment.
11. Procedure for Appeals from Inspection Officers to Grain Appeal Tribunals as amended.
14. Construction of Elevators.
21. Cleaning Grain and Bins.
22. Fees.
23. Form of Terminal Warehouse Receipt.
35. Registration and Cancellation of Transfer and Eastern Warehouse Receipts.
36. Delivery of Grain to Ocean vessels at Montreal.
37. Maximum Charges and Shrinkage Allowances—Country Elevators.
38. Maximum Tariff of Charges, Terminal Elevators at Fort William-Port Arthur as amended.
39. Maximum Tariff of Charges, Government Interior Terminal Elevators at Saskatoon, Moose Jaw, Calgary, Edmonton, Lethbridge as amended.
40. Maximum Tariff of Charges, Terminal Elevators West of Calgary, Alberta, as amended.
41. Maximum Tariff of Charges, Churchill Terminal Elevator as amended.
42. Maximum Tariff of Charges for handling grain at Eastern Elevators as amended.
43. Procedure—Country Elevators.
44. Drying of Grain.
45. Records, Reports and Returns.
46. Receipt for grain delivered to Private Country Elevators and Mill Elevators.
47. Inspection of grain at The Pas, Manitoba.

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